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The Third Precise Levelling of Finland

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ABSTRACT

The Third Precise Levelling of Finland was performed in 1978–2006 by The Finnish Geodetic Institute (FGI). The levelling network consisted 9158 km of levelled lines including 29 closed loops, 13 side lines to the tide gauges and 21 connections to the neighbouring countries. The mean standard error of the Third Levelling, calculated from the closing errors of the levelling loops, is $\pm 0.86 \text{ mm}/\sqrt{\text{km}}$.

In this publication, measuring methods, equipment, computation of the observations, and the adjustments are presented. In the appendices, yearly progress of the measuring work, the rod corrections, and the observations are presented.

The new height system N2000 is a realization of a European Vertical Reference System (EVRS). It is a normal height system, where the permanent tidal deformation is in a zero tidal system. The observations were reduced to the epoch 2000.0 using the Nordic land uplift model NKG2005LU. The Normaal Amsterdams Peil (NAP) is a datum of the N2000 height system.

The fundamental bench mark PP2000 for the adjustment of the Finnish observations is located in Metsähovi and its height is 54.4233 m. This height was determined by using the Finnish version of the Baltic Levelling Ring adjustment. The N2000 adjustment contained the measurements of the Third Levelling of Finland and some observations of Sweden and Norway near the Finnish border in order to ensure the compatibility of the new height systems between the neighbouring countries.

TIIVISTELMÄ

Tässä julkaisussa annetaan tiedot Suomen Kolmannen tarkkavaaituksen mittausten suorittamisesta, käytetyistä välineistä ja laskentamenetelmistä. Vaaitusten vuosittainen eteneminen, käytetyt lattakorjaukset, vaaitushavainnot ja tasoitustulokset annetaan liiteosassa.

Tarkkavaaittujen linjojen yhteispituus on 9158 km, johon sisältyy 29 suljettua vaaitussilmukkaa, 13 vaaituslinjaa mareografeille ja 21 liitosta naapurimaihin. Keskivirhe laskettuna vaaituksen sulkuvirheistä on $\pm 0.86\ \mathrm{mm}/\sqrt{\mathrm{km}}$.

Mittaustyön suoritti Geodeettinen laitos 1978–2006. Vuosien aikana kymmenen tutkijaa toimi vaaitusryhmän vetäjänä ja kaikkiaan seitsemänsataa henkilöä toimi retkikunnissa mittausapulaisina. Vaaituksia suoritettiin pääasiassa keväällä ja syksyllä. Sateisina ja pilvisinä päivinä mittaukset kyettiin suorittamaan yhdessä osassa, mutta varsinkin keväisin päivittäiset mittaukset jouduttiin suoritettamaan kahdessa osassa, jolloin ensimmäinen mittaus suoritettiin varhain aamulla ja toinen illalla olosuhteiden muututtua vaaitukselle suotuisiksi.

Mittausmenetelmät kehittyivät vuosien aikana. Mittaukset aloitettiin automaattisella vaaituskojella Zeiss Ni002. Tämän jälkeen mittauksia suoritettiin vesivaakakojeella Wild N3. Vuodesta 2001 lähtien digitaalikojetta Zeiss DiNi12 ja viivakoodilattoja on käytetty. Vaaituslattojen kalibrointi on suoritettu Geodeettisen laitoksen lattakomparaattorilla. Ensimmäinen komparaattori rakennettiin jo 1970-luvulla.

Mittaushavaintojen pohjalta on laskettu N2000-korkeusjärjestelmä. Ennen tasoitusta vaaitushavaintoihin on tehty refraktio-, latta- ja vuoksikorjaukset. Vaaituskojeella Zeiss Ni002 tehtyihin havaintoihin on lisäksi lisätty magneettisuuskorjaus. Korkeuserot on korjattu maannousumallilla NKG2005LU järjestelmän epookkiin 2000.0.

N2000 on Eurooppalaisen korkeusjärjestelmän kansallinen realisaatio. Järjestelmän lähtötaso on NAP (Normaal Amsterdam Peil). Kansallisen tasoituksen lähtöpisteelle korkeusarvo on määritetty Itämeren ympäristömaiden tasoitusaineistoa käyttäen. N2000-tasoitukseen sisältyy Suomen vaaitushavaintojen lisäksi Ruotsin ja Norjan raja-alueen havaintoja. Kiinnitetty piste PP2000 sijaitsee Kirkkonummella Metsähovin tutkimusaseman läheisyydessä. Aikaisemmista korkeusjärjestelmistä poiketen N2000 on normaalikorkeusjärjestelmä. Vuoksivoimien vaikutuksesta tapahtuvan maankuoren pysyvän deformaation osalta N2000 on nollavuoksijärjestelmä.

Contents

Chapter 1

Introduction

The Third Precise Levelling of Finland was measured in 1978–2006 by The Finnish Geodetic Institute (FGI). This publication presents the description of the Finnish precise levellings, equipment in the Third Levelling, field work routines, rod calibrations, and computation of the observations and the adjustments.

Yearly progress of the measuring work, rod corrections, and the list of the observations are presented in the Appendices.

In the summary of the yearly progress, the identifications of the lines, end bench marks, nodal bench marks, levels, rod pairs, observers, and the length of the line, are presented.

In the observation list, the observations (mm and mgpu) are presented in the observation epoch and as adjusted height differences in the system epoch 2000.0. In addition, the gravity values, tidal system corrections, and adjustment results of the bench marks are presented. The results of the N2000 adjustment are presented in geopotential units, in a zero tidal system.

The computation of the N2000 heights follows the EVRS conventions, and consequently the height datum was derived from NAP (Normaal Amsterdams Peil). The computation was performed in two steps. First, the height of the N2000 main point PP2000 was determined using the adjustment of the levelling data around the Baltic Sea (Baltic Levelling Ring, BLR). Then, the heights of the other Finnish bench marks were defined using the adjustment of the Third Precise Levelling by fixing the height of the bench mark PP2000. The fixed bench mark PP2000 is under the monument in the vicinity of the Metsähovi Research Station in Kirkkonummi.

The bench mark information is presented in the Bench Mark List of the Third Levelling of Finland [1]. In that publication, coordinates, site descriptions, and the N2000 heights of the bench marks are presented.

Chapter 2

Finnish precise levellings

The First Levelling covered Southern and Central Finland. In the Second Levelling, the whole country, including the Åland Islands, was measured. The height system NN is based on the First Levelling and the height system N60 on the Second Levelling (Table 2.1). The network of the Third Levelling was based on the Second Levelling. Some large loops of the previous levelling were divided into smaller loops, and more border connections to neighbouring countries were added.

2.1 The First Levelling of Finland

The levelling was performed by the National Board of Public Roads- and Waterways in 1892–1910 [2]. The total length of the lines including branch lines was 5182 km, of which 68% were railways and the rest were roads. In total 2675 bench marks were placed with the average distance of 1.9 km. The standard deviation of the First Levelling was ± 1.23 mm/$\sqrt{\text{km}}$.

In the computations, rod and orthometric corrections were applied. The rod corrections were based on regular comparisons of the rod scales with the normal metre. Orthometric corrections were used for the error due to nonparallel equipotential surfaces of the Earth's gravity field. At that time land uplift rates were not available, so the errors due to land uplift exist in the adjusted heights.

The symbolic datum point of the first national height system NN was established on Tähtitorninmäki (Observatory Hill) in Helsinki, and the initial level of the height system is the zero of the water scale at the Katajanokka Bridge in Helsinki. The water scale zero was 109 mm below the actual mean sea level in 1900 [3]. The error was found, when the Helsinki sea level recordings from 1904 to 1909 were analysed. Due to the land uplift and the erroneous sea level height, the NN zero level coincided with the Helsinki mean sea level in 1943.

2.2 The Second Levelling of Finland

The Second Levelling was performed by the Finnish Geodetic Institute in 1935-1975. The network consisted of 21 closed loops. There were 4848 bench marks with an average distance of 1.5 km. The total length of the levelling lines including connecting lines was 8196 km. The lines were mostly along railways (59%) and

roads (39%). A small amount of measurements were performed in terrain or in water crossings connecting mainland Finland to the Åland Islands. The territory, which was ceded to the Soviet Union after the war in 1944, had 490 km of lines.

In 1955, the network of the First Levelling up to the Arctic Circle was completely measured, consisting of 18 closed loops and levelled lines of 6237 km. The bench mark list, levelling observations and adjustment results were presented in [3] and [4]. The N60 heights are relative to the theoretical mean sea level at Helsinki in 1960.0. The zero level was computed from the sea level recordings in 1935–1954 and extrapolated to the epoch 1960.0.

The land uplift rates were determined using an iterative method in which the First and the Second Levelling were adjusted separately in the epochs 1900.0 and 1944.0, and between the iterations the land uplift rates were computed and utilized for the observations [4]. The starting value for the land uplift rates was determined using Hela uplift rates [5] at 12 tide gauges and adding 0.8 mm/y for the global (eustatic) sea level rise, so the rates were relative to the geoid.

The standard deviation of the levelling is ± 0.67 mm/$\sqrt{\text{km}}$, if computed using the closing errors of the loops and observations were corrected with the land uplift rates from the three Finnish precise levellings [6].

A precise levelling for Lapland was performed in two periods, 1953–1962 and 1971–1972 [7, 8]. In order to determine the land uplift rates for Lapland, a levelling line from Kemi to Karigasniemi was measured again in 1973-1975. The fixed bench marks for Lapland were located at Aavasaksa (3957), Sinettä (52246), and Kemijärvi (50203) with their published N60 heights [3].

The measurements of the Åland archipelago were started in the Eckerö-Bomarsund line [9]. The last observations were made between the Degerby tide gauge and Lemström. The length of the levelling lines was 288.74 km of which water crossings accounted for 55.43 km. The observation years were 1962–1967, 1972 and 1975.

2.3 Height systems N43 and LN

Temporary heights were delivered during the run of the Second Levelling before the final N60 heights were published. In the Southern Finland, the height system N43 was established [3]. The starting value for the N43 system is NN height 20.619 m at bench mark 35007, in Pasila. This starting value represents approximate heights above the mean sea level at Helsinki in 1943, like those presented in Section 2.1.

The N43 heights were computed without land uplift corrections. The yearly measurements were simply forced to the previously measured network. Therefore in Southern Finland, the N43 heights are close to the NN heights, but the difference is about 25 cm at the maximum uplift areas [3].

The temporary LN heights in Lapland were delivered when the Second Levelling was still in progress in the north side of the Arctic Circle. The LN heights were computed in the same way as the N43 heights. After the re-measurements in Lapland (1973–1975), the land uplift values were determined and the N60 heights were computed for Lapland [7, 8].

The N43 heights can be found in the old maps of Åland Islands. These heights are actually preliminary N60 heights, which were determined whenthe levelling of the Åland Islands was ready and the published N60 heights were available in

Table 2.1: Summary of the Finnish precise levellings

PL	Years	Zero level	Height system
1.	1892–1910	Helsinki sea level 1900 (1943)	NN
2.	1935–1975	Helsinki sea level 1960	N60
3.	1978–2006	NAP (Normaal Amsterdams Peil)	N2000

mainland Finland. The N43 heights in the old maps of the Åland Islands are approximately 2 cm smaller than the N60 heights.

2.4 The Third Levelling of Finland

The total length of the levelling lines including branch lines was 9158 km and there are 6103 bench marks with an average distance of 1.5 km. The work was started on 11 May, 1978 in Helsinki and the measurements were concluded 28 years later on 11 October, 2006 in Lieksa near the Russian border (Figure 2.1).

In the network, there are 29 closed loops, 13 connections to the tide gauges, 21 border connections to the neighbouring countries, and 16 additional lines (Figure 2.2). About the same amount of measurements was performed along railways (48%) and roads (52%). In Southern Finland, the levelling routes were mostly along railways.

The network of the Third Levelling was based on the Second Levelling. The following lines were added to the network: 24.1, 24.2, 78, 79, 80, 82, 83, 84, MAS, OLK, and ORA, as well as four new border connection lines to Sweden, one to Norway, and eight to Russia. The Metsähovi Research Station was connected to the precise levelling network using the 83 levelling line.

Those lines excluded from the Second Levelling network were an inland line from Äänekoski to Kokkola and water crossing lines between Kustavi and Bomarsund, Eckerö and Märket, and Svinö and Degerby in the Turku and the Åland archipelago.

The yearly progress of the Third Levelling is presented in Appendix A and in Figure 2.3. The most productive year was 1980, when the expeditions levelled 567 km (Figure 2.4). Ten observers and seven hundred crew members participated in the measurements [1]. Pekka Lehmuskoski (measured 4258 km), Paavo Rouhiainen (measured 2309 km), Veikko Saaranen (measured 1474 km) and Mikko Takalo (measured 1258 km) measured 96 percent of the levellings. The tide gauge lines were measured twice and thus the total number of the levelled kilometres is more than the length of the levelling network.

2.5 Observations from mainland Finland to Åland Islands

The levelling observations to the Åland Islands are mostly from the Second Levelling, because the re-measurement of the water crossings would be too time-consuming. For example an interval 63115-62138, from Osnäs to Bomarsund, has 30 km of water crossings. The observations from the previous levelling are

Figure 2.1: The last observation of the Third Levelling was taken in front of the Lieksa railway station (Photo T. Siponen).

from mainland Finland to Åland Islands, from Eckerö to the Märket islet, and from Svinö to the Degerby tide gauge (Table 2.2).

In the Second Levelling, there were more than a hundred water crossings. The optical method was applied in every water crossing. The average length of the crossings was 478 m. The detailed description of the water crossings is presented in [9].

In the Third Levelling, three water crossings were performed during 11–15 October, 2004 in Kustavi and the Åland Islands. The equipment used was DiNi12 digital levels with serial numbers 320015, 320243 and 320244, and four times magnified self-made barcode rods 8617S/8618S [10].

In Kustavi the bench mark intervals were 03330-63111 and 03338-03339, with the bench mark 63111 in the north and 03338 on the south-west coast of Pikku Pirisholmi. The interval 03330-63111 was observed in good measuring weather, but during the measurements of 03338-03339 the weather was partly sunny. The measurements were performed symmetrically from the bench marks and each observer performed four observations using three levels. Consequently, the total number of observations in both water crossings in Kustavi was 48.

On the Åland Islands, the water crossing AHV6-AHV7 is between the Prästö and Töftö Islands. The interval belongs to the levelling line P1.2. Four sets of observations using each level from both sides of the Prästö sound were performed. The number of observations between the bench marks was 24. The weather was partly sunny and reflections from the water surface disturbed the observation work. The refraction correction was not applied to the observations, but collimation and the Earth's curvature were corrected.

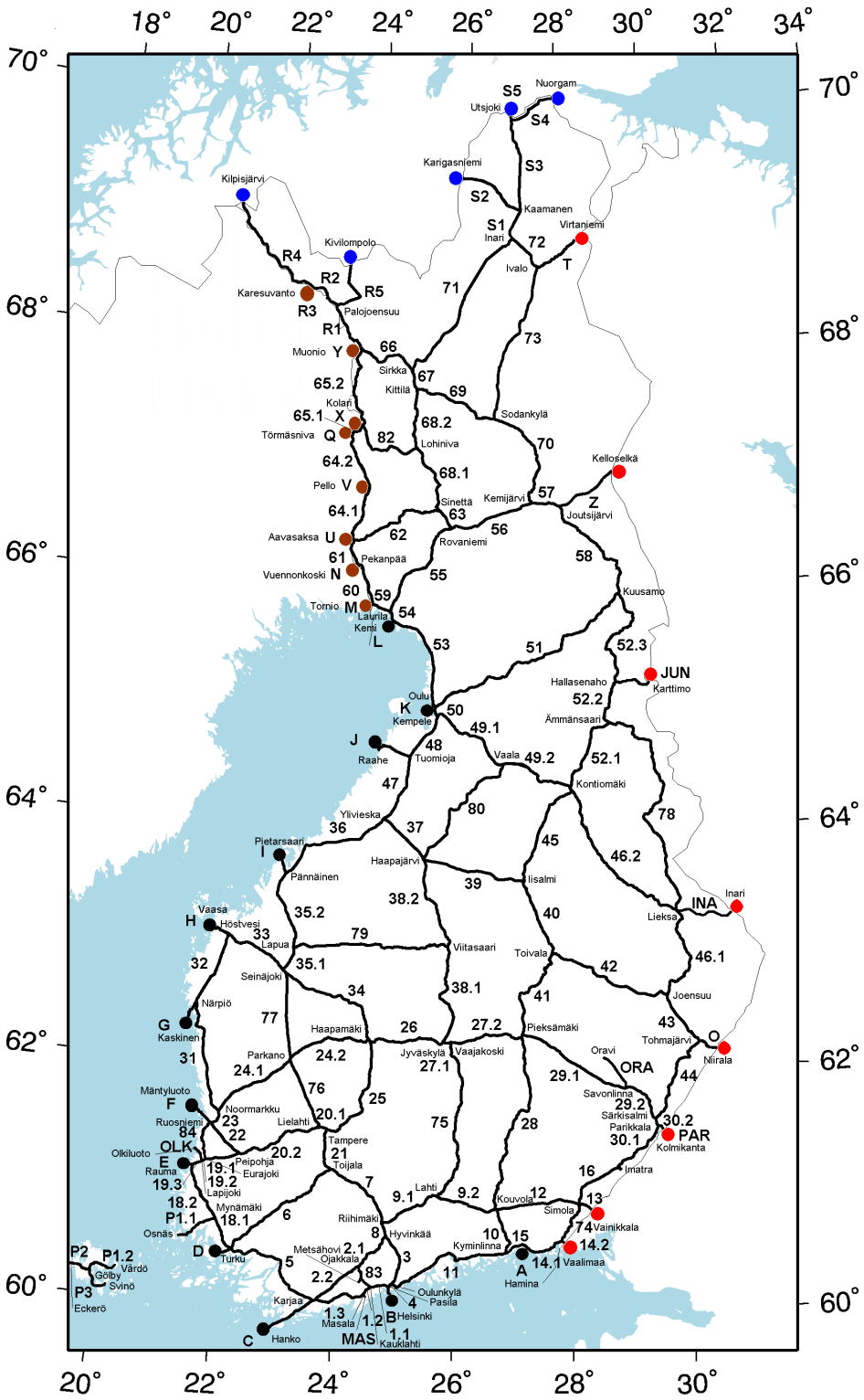

Figure 2.2: Network of the Third Levelling. The black dots indicate tide gauges and the coloured dots junctions to Sweden, Norway and Russia.

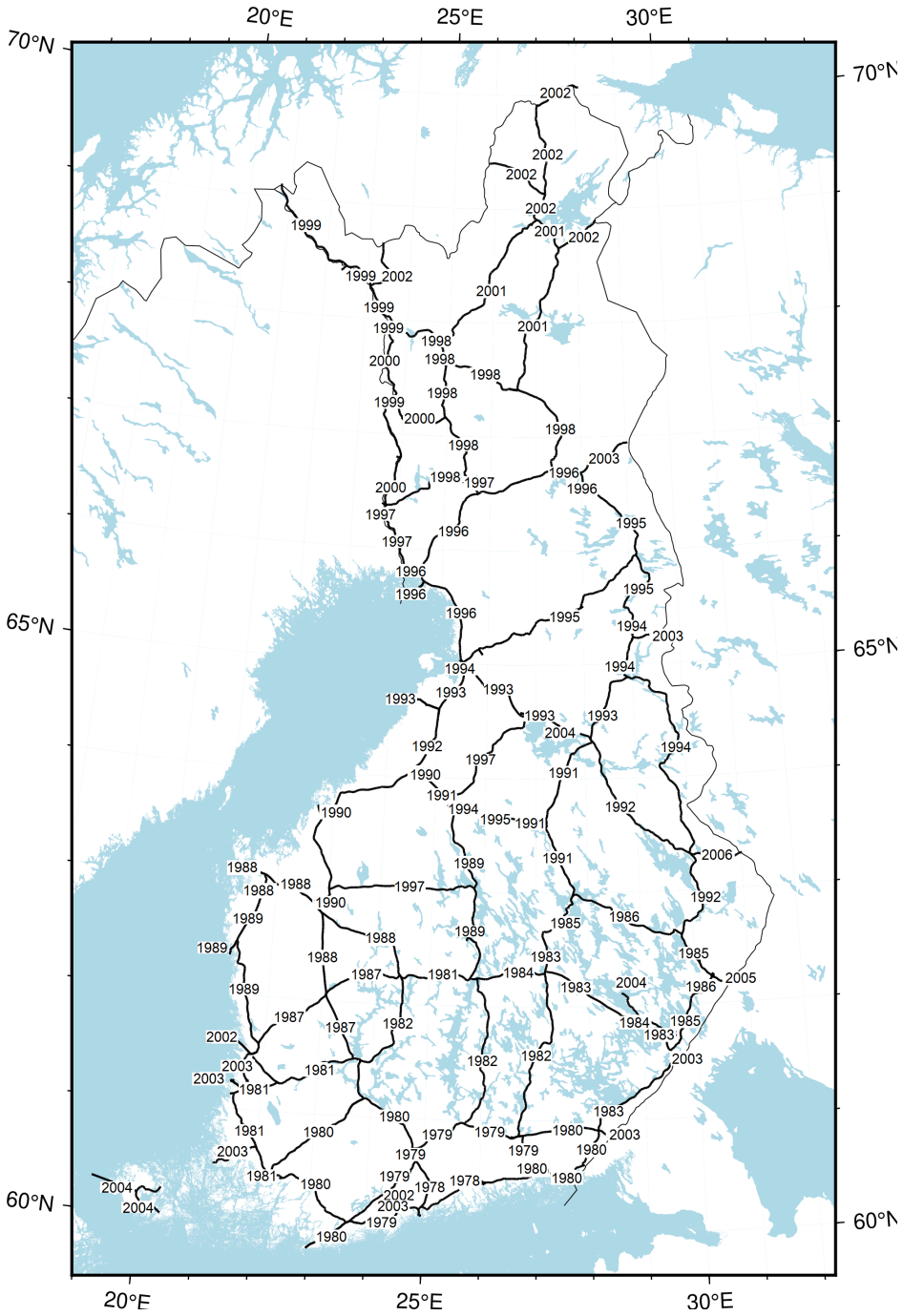

Figure 2.3: The observing years in the Third Levelling.

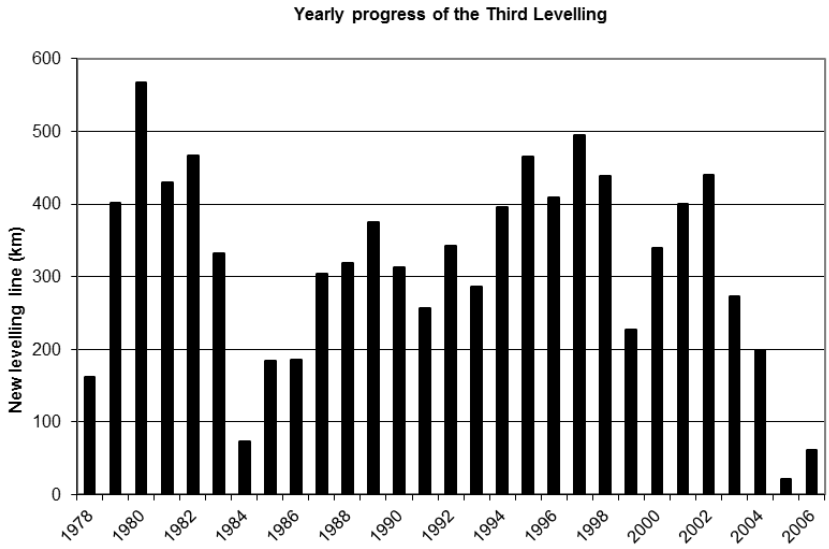

Figure 2.4: The most productive levelling year was 1980. The drop, in 1984, was due to the levelling instrument tests.

Table 2.2: Observations with water crossings in the BLR/FI and N2000 adjustments

BM	BM	Location	Distance (km)	Epoch
63115	62138	From Osnäs to Bomarsund	101.600	1966.39
67116	SF88	From Eckerö to Märket	7.537	1971.12
75401	75400	From Svinö to Degerby tide gauge	13.587	1975.40
AHV6	AHV7	Åland Islands, between Prästö and Töftö	0.450	2004.70
03330	63111	Kustavi, Pikku Pirisholmi	0.390	2004.70
03338	03339	Kustavi, Pikku Pirisholmi	0.240	2004.70

Chapter 3

Equipment

The preparations for the Third Levelling were started in the early 1970s and continued over the years as a part of the field work or special measurements in test fields. The levelling instruments, bicycle levelling method along roads and hand car along railways were already tested during the relevelling of Lapland in 1972–1975. Three test fields were established for levelling research purposes. The summary of the tests is presented in Table 3.1. The Zeiss instruments were made in Germany, Zeiss Ni1 in West Germany, Zeiss Ni002 in East Germany, MOM in Hungary, and Wild in Switzerland.

The Laakso test field in the central park of Helsinki was built in 1974–1975. The base of the test area was flat bedrock and the environment was a thin forest. The test field consisted of four bench mark bolts located on the same line every 25 m. The first tests were performed in 1975 and the last in 1989. The Zeiss Ni002 instruments and since 1986 the Wild N3 were studied by comparing several instruments simultaneously and analysing the variation of the mean height differences, the mutual differences between the instruments and their deviations from each other. The parallax effect of the Zeiss Ni002 was the most remarkable discovery of these tests [11].

The Eestinkylä test field was built in 1991 on a gentle bedrock slope near the village of Eestinkylä in Kirkkonummi. The field is 200 m long, containing seven bench marks on the same line and approximately on the same level, too. Simultaneous observations using the Wild N3, Zeiss Ni002 and Zeiss DiNi10 in-

Table 3.1: Tested levelling instruments and their usage in the Third Precise Levelling

Instrument	Manufacturer	Tested	Used
Zeiss Ni1	Zeiss Oberkochen	1972–1973	No
MOM NiA31	MOM	1974–1976	No
Zeiss Ni002	Zeiss Jena	1973–1976	1978–1983
Zeiss NiA	Zeiss	1972–1975, 1984	1985
Wild N3	Wild Heerbrugg	1986–2000	1984–2000
Zeiss DiNi10	Zeiss	1999	No
Zeiss DiNi12	Zeiss	2000–2003	2001–2006

Figure 3.1: The simultaneous levelling using the Zeiss DiNi12 instruments at the Metsähovi test field in 2001. Here are the three levellers (from left to right): Veikko Saaranen, Paavo Rouhiainen and Pekka Lehmuskoski (Photo J. Ahola).

struments were performed in the spring and autumn of 1992–1993 and 1999–2001 (Figure 3.1). The results indicated a small, but clear difference in height between the spring and autumn observations in one section, but significant differences between the instruments were not found.

The Metsähovi test field in Kirkkonummi was built in 2000 for testing digital levels. The field consists of three branches containing five bench marks on bedrock [12]. All the rod places are fixed, steel bolts mostly fastened to bedrock. The level types Zeiss DiNi12 and Wild N3 were tested with simultaneous measurements to calculate levelling errors and to study their measuring properties. The differences between the instruments were diminutive. Although the DiNi12 levels had a systematic behaviour the mean values of the back and forth measurements were correct [13]. Later it was recognized that there are some bedrock deformations in the test field, which are related to bedrock temperature changes [12].

In 2001–2002 the behaviour of the digital level DiNi12 was also studied at the laboratories of the Helsinki University of Technology and the Finnish Geodetic Institute. According to the results a narrow shadow caused by for example the branch of a tree can cause a significant error on the rod reading. A major error is also possible if the rod reading is too near the lower or upper end of the rod [13].

Levelling instrument research is presented in [11, 13, 14, 15, 16, 17, 18, 19]. The bedrock deformation at the Metsähovi test field is presented in [12] and [20]. The water crossing technique is presented in [10]. Properties of the wooden frame rods were studied in [21].

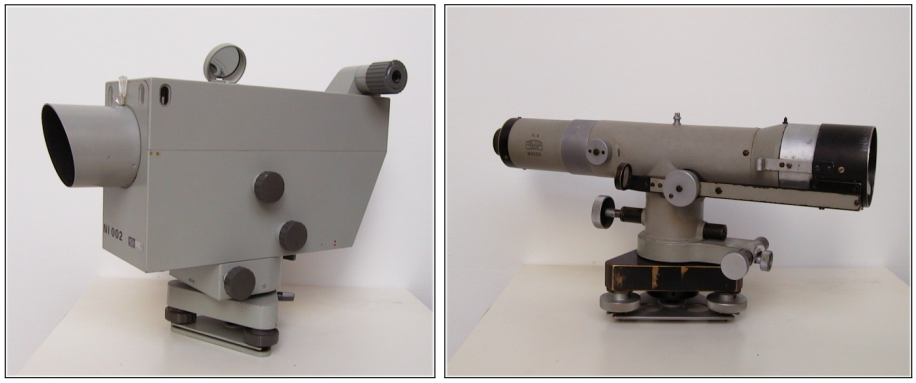

Figure 3.2: Automatic level Zeiss Ni002 and spirit level Zeiss NiA (Photos M. Takalo).

3.1 Precise levelling instruments

Zeiss Ni002 automatic levels (Figure 3.2) were used in the beginning of the Third Levelling. This is a fast instrument, due to its reversing self-aligning compensator and ocular solutions. The compensator is a hanging mirror turning 180 degrees around its vertical axis, enabling the use of the quasi horizon. The turning ocular is located on the top of the instrument and it can be turned horizontally 180 degrees, so at setups observers need only one observing position. As a disadvantage, it is sensitive to mechanical and magnetic interferences. Five of the seven levels used in the levelling were the property of the FGI. Two levels were borrowed.

In 1985, Zeiss NiA spirit levels (Figure 3.2) were used instead of Zeiss Ni002 levels. In 1983, the Zeiss Ni002 levels malfunctioned. In two bench mark intervals, the differences between the forward and backward measurements were large, and in addition the results differed remarkably from the earlier results. During the following year simultaneous test measurements were performed and in comparison with the earlier results, the Zeiss NiA was better than the Zeiss Ni002. After 1985, the Zeiss NiA levels were abandoned, because they turned out to be obsolete, mechanically uncertain and worn. Naturally, spare parts were not available for this old instrument, which had already been used in the Second Levelling.

Wild N3 spirit levels were used in 1984–2000 and since 2001 Zeiss DiNi12 digital levels have been used (Figure 3.3). In the measurements with aging Wild N3 instruments, large closing errors were detected. The reason for the errors is still unknown, but it is possible that the errors were related to the instruments.

The Zeiss NiA, Wild N3 and Zeiss DiNi12 are sensitive to direct sunshine and rain, so these instruments were protected with an umbrella at observation locations and between the setups the instruments were sheltered using light waterproof bags (Figure 3.4). Asymmetric sunlight distribution can change the angle between the sight line and the horizontal plane [17] and [22]. In other words, the collimation error is not definitely constant in varying sunlight.

The levelled distances of the instruments are presented in Figure 3.5.

Figure 3.3: Spirit level Wild N3 and digital level Zeiss DiNi12 (Photos M. Takalo).

Figure 3.4: Levelling umbrella in use in Inari in 2002 (Photo M. Poutanen).

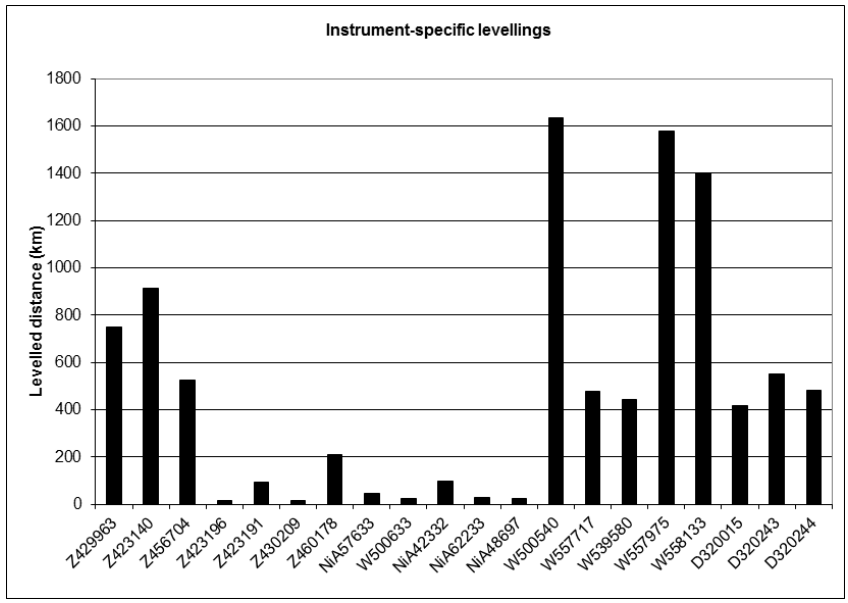

Figure 3.5: The levels in the Third Levelling. Capital letters and "NiA" denote an instrument: Z=Zeiss Ni002, NiA=Zeiss NiA, W=Wild N3 and D=Zeiss DiNi12. It is followed by a serial number.The instruments were the property of the FGI, except for the Zeiss Ni002 levels 423196 (Helsinki University of Technology) , the 430209 (Wulff Ltd) and one Wild N3 (500633 from Ilmonen Ltd).

3.2 Tripods

MOM, Zeiss Jena and Wild GST 20 tripods were used in the measurements. The MOM tripods were used during the first two years. Its extended oil-damped metallic structure absorbed all kinds of vibrations well, but ultimately it was too heavy for levelling work. Subsequently, the lighter wooden tripods, the Zeiss Jena and Wild GST 20 were used. The Wild GST 20 was lightweight and sensitive to wind. Consequently, its legs were strengthened with extra wooden supports.

3.3 Precise levelling rods

Measurements were started by using wooden frame Zeiss Jena rods. In 1996–1997 aluminium frame Nedo rods were also used, but from 1998 only aluminium rods were used. With the spirit levels, rod scale divisions of 5 mm were used and there were two scales on the invar band (Figure 3.6). The digital levels were used with Nedo LD13 barcode rods.

The measured distances of the rod pairs are presented in Figure 3.7. Most measurements were performed using 3 m long rods. In special measurements 1 m and 2 m rods were used. In the water crossing measurements, self-made rods with enlarged scales were used.

Measuring scales are on invar bands, which have a very small thermal expansion coefficient of 1 (μm/m)/°C. Conversely, aluminium frames have a coefficient of 24 (μm/m)/°C. At first, the temperature values for rod corrections were measured using mercury thermometers, which were fastened to the back of the wooden rod frame, but later air temperatures were used as rod temperatures.

Rods are equipped with compensators, which keep the invar band's tension as constant as possible. In the rod's construction, the upper part of an invar band is fixed to a compensator. The invar bands of Nedo rods are stabilized within the body of the rod using springs which fix the steel tapes at a force of 30N [23].

3.4 Rod bases

On railways rail screws, rail nails and rail springs were used as rod bases. Rail screws and nails attach the rails on wooden sleepers and the rail springs on concrete sleepers. The rail nails were often installed so close to the rails that during observation the nail was not below the mean point of the rod's bottom plate. When turning a rod on a nail to the opposite direction, asymmetry can cause a small error, especially if the bottom plate of the rod is oblique. This error was eliminated by changing rod locations to the other rail in the middle of bench mark intervals.

Steel rail clamps were used in 1995–1997. They were widely used in the Second Levelling [4]. They were fastened to the foot of the rail with an eccentric disc. Sometimes the fluent fastening was prevented by the upper layer of gravel. Another problem was that fast moving trains caused vibrations which easily disconnected rail clamps.

On roads and other hard surfaces, the rods were on steel plates. Wedge-like pins, which were pounded into the ground, were used in forest, along recently paved asphalt roads, and other soft surfaces (Figure 3.8).

Figure 3.6: The Rods from left to right are the Zeiss Jena, Nedo and the Nedo LD 13 barcode rod (Photo P. Lehmuskoski).

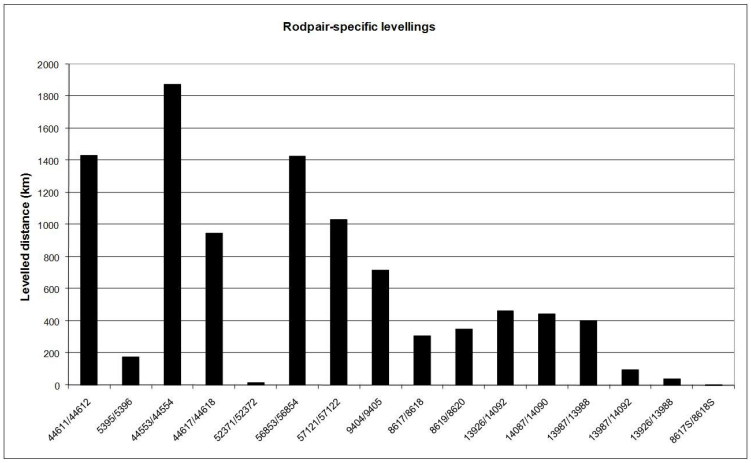

Figure 3.7: Histogram of rod pairs vs. double run levellings. The serial numbers of rods are given on the horizontal axis. The first seven bars represent the Zeiss Jena rods, the next three bars represent the Nedo rods, and the next five bars following that represent the Nedo LD 13 barcode rods. The last small bar represents a self-made special rod. A four times enlarged barcode scale was fastened on the back of the rod pair 8617/8618. This rod pair was used in water crossings in 2004.

Figure 3.8: Rod bases from left are a wedge like pin and a steel plate (Photos M. Takalo).

Figure 3.9: Thermometers. On the left is a differential thermometer designed by the Technical Research Centre of Finland. The others are a Delta Ohm HD 8704 (in middle) and a Fluke 54 II temperature logger (Photos M. Takalo).

Steel pins were used in the most challenging situations such us swamp terrain or sand beds along railways, if the rail nails were considered to be unreliable. The pins were 50 cm long and of 2 cm thick. In the beginning of the Third Levelling, 40 cm long and 1.4 cm thick pins were used [14].

3.5 Thermometers

Temperatures were measured at 0.5 m and 2.5 m above the ground. The temperature sensors were fixed to holders so that the small shades prevented direct sunlight on them. Most electronic thermometers were sensitive to water and thus they were not used if it was raining. The temperature measuring equipment was easily disturbed by overhead lines on railways and overhead power lines.

Temperature differences were used in refraction corrections and mean temperatures in rod corrections. The following thermometers were used:

- Self-made thermometers were used in 1978–1979. The model was constructed by Kukkamäki for the Second Levelling and this was later improved by Hytönen[24]. Since the old model did not function well, the temperature gradients were estimated by using the Taavitsainen[25] prediction model.

- The model, which was used in 1980–1989, was originally designed by the Helsinki University of Technology and this was later improved by the Technical Research Centre of Finland. It reacted slowly to the air temperature changes.

- A Delta Ohm HD 8704 was used in 1990–1995 and 1998–1999. The probe of the instrument was a K–type thermocouple. Unfortunately, two of three of the thermometers were clearly disturbed by the electric field caused by the railway power lines. On a digital display, the thermometer displayed two temperature values and their differences.

- In 1996–2000, a Fluke 52 was used, which was equipped with two channels and K–type thermocouple sensors with approximately 1.5 m long insulated NiCr/Ni wires. This type was also sensitive to the electric fields and to humidity during rain.

- In 2000–2006, Fluke 54 II temperature loggers were used, which responded rapidly to air temperature changes. The temperatures and temperature gradients were recorded at predefined time intervals of one or two minutes. The logger's memory was cleared daily, because the maximum number of recordings was only 500. The recordings were stored on a data computer with the aid of an infrared link.

The thermometers are presented in Figure 3.9. When spirit levels were used, the rod and thermometer readings were recorded manually, and thus the temperatures were recorded next to the instrument at the observation locations. When digital level and Fluke 54 II temperature loggers were used, the temperatures were recorded more freely relative to the observer's work.

3.6 Measuring distances

The sight distances were measured using Rollfix measuring wheels. Along railways a track trail was mounted to keep a measuring wheel on a rail. The distances outside railways and roads were measured using steel or plastic measuring tapes, especially when spirit levels were used. Although digital levels can measure distances, measuring wheels were still used.

During the back measurements, the distances of bench mark intervals were measured and the locations of remarkable objects, such us bridges and junctions, were determined. This information was used in bench mark descriptions and in the bench mark list [1].

The bench marks' side distances were measured from the middle of the road to the bench mark position using a tape measure.

Chapter 4

The description of the field work

There were an observer and four or five crew members in the expedition. Only four crew members were needed when the Zeiss Ni002 or the digital level DiNi12 was used (Figure 4.1). The Zeiss Ni002 level is waterproof and not sensitive to sunshine, but umbrellas were used with the other instruments. Before recording the digital levels, the record keepers were required to store observations in note books or on handheld computers. The record keepers carried thermometer holders which were equipped with a small table.

Bench mark intervals are measured back and forth and the height difference is the mean of the measurements. The index error of rods is removed by observing an even number of setups. If an odd number of setups is observed, then the other rod is changed onto the bench mark before the back measurement. The observing and rod positions are marked during the fore measurement. The closing measurements are performed using the same positions. During the measurements on roads traffic signs warn any oncoming traffic. On railways, safety personnel from the railway company took care of safety. Before the measuring work was started, the old bench marks had to be restored and the new ones established

Figure 4.1: Levelling measurement using the digital level DiNi12. The distance measurer carries the thermometer holder (Photo M. Poutanen).

Figure 4.2: The device, between a hammer and a bolt, was used to protect the bolts during pounding (Photo M. Takalo).

where it was considered necessary.

4.1 Maintenance of the levelling network

Most levelling routes followed the old levelling lines of the Second Levelling. New bench marks were established if the distance between the successive bench marks was too long. Bedrock bench marks are used in deformation and land uplift studies so, if possible, new bench marks were established on bedrock.

The bench mark bolts are 15 cm long and their arm is 22 mm thick. Before 1987, the arm was 25 mm thick. The diameter of the bolt's spherical head is 38 mm and in a bolt there is a slit for a wedge (Figure 4.2).

In the beginning of the levelling, boreholes for bench marks were drilled using Cobra rock drilling machines, later on Torna electric hammers were used. Since 1987, the drilling was performed using gasoline-powered rotary hammers: a Partner (1987), a Kawasaki Ten 22 (1988–1997) and a Ryobi ER-382 (1998–2006). Soldering concrete was used to strengthen the fastening of the bolts and preventing the flow of water into boreholes. Bolts were painted using anticorrosive paint (Figure 4.3).

The bench mark identifier is a five-digit number – two places are for the setting year, one number for the surveyor and two numbers for the annual serial number of bench marks. In the Second Levelling and in the beginning of the Third Levelling, the bench mark identifiers were engraved using hammers and chisels, but later the work was done using drilling machines.

The bench mark descriptions were done for both old and new bench marks, and include at least identifiers and coordinates. The site location is bedrock, boulder, bridge, culvert, or foundation. Side distances were measured from the middle of the road. The approximate height of the bench mark relative to the road surface was determined with the aid of a Suunto clinometer. The levelling routes went along asphalt and dirt roads. On railways, the surface material was mostly gravel. In the beginning of the levelling, the bench mark locations and coordinates were determined using topographic maps. Since 2001, coordinates have been measured with handheld GPS receivers, which typically have an accuracy of some metres.

Figure 4.3: In the making of a new bench mark near Toivala in 2005. Three phases of work are drilling, pounding and painting of the bench mark (Photos I. and P.Lehmuskoski).

4.2 On the weather conditions for the levelling work

Daily measurements were usually performed in two parts. Typically two bench mark intervals were measured in a day. The first measurements were started about two hours after sunrise and the work continued after the midday break. In the evening, the measurements were stopped one hour before sunset at the latest. On rainy days and especially in the late autumn, the levelling expeditions worked continuously without any midday break. In Lapland, the daily measurements were performed in one session.

Overcast and rainy days are optimal for levelling work. In ideal weather conditions, the ground level temperature (measured at 0.5 m) should be slightly higher than the air temperature at 2.5 m above the ground. In other words, the temperature gradient should be from -0.1°C to -0.5°C. If the negative gradient was greater, then shorter sight distances were used to decrease short-period shimmering. During the night and after sunrise there is a danger of slow vertical air movements which are clearly visible with the naked eye.

Shorter sight distances were used on sunny days. A maximum sighting distance of 45 m was used with DiNi12 levels. With the previous levels, the maximum sight distance of 55 m was used. The sight distances from the instrument to the rods have to be equal as this reduces the errors due to collimation, refraction and curvature of the Earth. With a digital level, the cumulative distance difference between the back and forward directions was possible to check and correct during the measurements. The recommendation is that sight lines should be more than 0.5 m above the ground to reduce the refraction effect.

The measurements were performed mainly in spring and autumn. In July, the levelling expeditions had a summer break in Southern and Central Finland. In Northern Finland, the levelling season started in June and it was continued to September or October.

Figure 4.4: Bicycle levelling in Hyvinkää in 1979 (Photo S. Kora).

4.3 Movement of the expeditions

Traditionally, Finnish levelling expeditions have moved on foot, but during the early years of the levelling bicycles on roads and handcars on railways were used. This choice was based on the test measurements during the re-levelling of Lapland in 1972–1975 [14]. Motorized levelling was not used in Finland, although it was used widely in the other Nordic countries [26].

Bicycles and handcars were used in 1978–1985, but when the automatic Zeiss Ni002 levels were changed to spirit levels, they were abandoned. The Zeiss Ni002 was used with vehicles, because its rotating ocular allowed observations from one observing position,

In the bicycle method (Figure 4.4), one bicycle measured distances and transported the rod base spikes and their pounding device. The record keeper's bicycle had a table and a differential thermometer rack while the observer's bicycle had a rack for the instrument.

In the handcar method (Figure 4.5), the rods kept their mutual order from the start to the middle of the bench mark intervals, where the rods were changed between handcars. This procedure eliminated the impact of zero point differences between the rod scales. As a whole, the rods were in the back and fore rod positions at equal times. In the normal levelling, the back rod is moved to the fore position after every setup.

The observers and record keepers were in the same handcar, which was equipped with a table and racks for a tripod and a differential thermometer. For the recordings, the tripods were taken out from handcars. One person moved on foot and measured places for the instruments and rods while the other crew members and equipment were located on handcars.

Figure 4.5: Handcar levelling in Inkeroinen in 1979 (Photo P. Lehmuskoski).

Figure 4.6: The adjustment of the Wild N3 using the Kukkamäki method in 1996. The record keeper observes the air temperature difference and writes down the rod readings (Photo I. Syvänperä).

4.4 Collimation error of the instrument

The collimation error i.e. the deviation between the instrument's line of sight and horizontal plane was determined once a week using the Kukkamäki method. In the method, the difference in height is measured in two locations. First, an instrument is placed in the middle of the rods and the sight distance is 10 m. Second, the instrument is outside the rods, so that the distances to the rods are 20 m and 40 m (Figure 4.6). Due to the unequal sight distances, the line of the sight's deviation from the horizontal level can be computed. The largest accepted error was 0.02 mm/m.

The collimation error of the Zeiss NiA was corrected by adjusting the main level and the Wild N3 was adjusted by turning the wedge-shaped cover glass in front of the objective. The determination of the collimation error was repeated and corrected until the error was below the threshold.

The collimation errors of the Zeiss Ni002 and digital levels were treated differently. The automatic level Zeiss Ni002 had to be sent to a service, if the collimation error was too large. The digital levels were able to correct the collimation errors. The levels saved the collimation error and corrected the rod readings. Normally errors were in range from -10" to +10", but there was one case, when the increased error was more than 100".

4.5 Rejection limits for the bench mark intervals and setups

The standard deviation m of the double run levelling observation is

$$m = \frac{\Delta(\text{mm})}{2\sqrt{L(\text{km})}}. \tag{4.1}$$

In the formula, Δ (mm) is the difference between the back and forth measurements and L (km) is the length of the bench mark interval. The unit of the standard deviation m is mm/$\sqrt{\text{km}}$.

Since the late 1980s, the maximum accepted difference between the back and forth measurements was $2\sqrt{L}$ mm, which is a standard deviation of ± 1.0 mm/$\sqrt{\text{km}}$. In the beginning of the Third Levelling, the limit was $1.6\sqrt{L}$. If the bench mark interval had to be measured for the second time, both directions were measured.

A heuristic approach for rejection limits was applied with Zeiss DiNi12 levels, if they had systemically large differences between the back and forth measurements. As a rule of thumb, the observations were accepted if the difference fulfilled the rejection criterion, after removing an average systematic difference.

At setups, the four rod readings were observed. The observing procedure was B1, F1, F2, B2, where B stands for the reading from the back rod and F from the fore rod. The rejection criterion was the difference of (B1-F1) and (B2-F2). The maximum accepted difference was 0.30 mm. In 1989-2000, the threshold of 0.45 mm was used.

4.6 Data processing

Rod readings, sight distances, air temperature gradients, and information of rain and intensity of the sun were recorded at every setup. Other weather parameters were recorded three times during the measurements. Short-period shimmering (turbulence) of air, cloud cover and wind speed (m/s), were estimated by the observers. In addition to these factors, the air temperature was measured and recorded.

On railways, passing trains were recorded. A train went before a setup or in the middle of a setup. In the latter case two first rod readings were recorded before the train and the observation was continued after the passing of the train. This information was more important when rail nails or unreliable rail clamps were used.

In the beginning of the levelling, observations were written down in notebooks. Later handheld Husky Hunter computers replaced notebooks. The first data collecting program was run on a CP/M operating system [27]. In 1987-1990, daily observations were copied to floppy disks using Bondwell computers and then Husky Oracle floppy disc drivers were used from 1991. Observations, temperature values and the recorded weather notes were combined into measurement documents, which were printed daily.

Digital levels record observations into PC Cards. Following the daily measurements, the content of the PC Card was copied to computers and to floppy discs or USB flash drives. The data from the temperature logger Fluke 54II was transferred using an infrared link. The observers recorded weather information into notebooks.

The documents of corrected observations i.e. line papers (Figure 4.7) were computed after field seasons. In these documents, all corrections are presented for both directions ("A" is a direction of a line and "B" is a closing measurement). Other columns include corrected height differences, differences between fore and back measurements, gravity at bench marks and geopotential differences. The program computes the epoch of levelling and standard deviations.

The computation program collects data from the observation documents, reads gravity values at the bench marks, computes corrections and presents observations in metric and geopotential differences. Over the years, several computing programs were used. There are no major differences between the program versions, which were LPAP71 (1969-1977), LPUS93U (1986-1994), and LPAP98 (since 1994). The programming language was FORTRAN 66 and 77. All the aforementioned computation programs computed observations relative to a mean tidal geoid. The heights and height differencies were transformed to a zero tidal system after adjustments.

46.1 B KELVÄ-TIENSUU

KIINTO-PISTE	A-LUS-TA	MATKA	MATKAN SUMMA	LATTA-KORJ. A - S U U N T A A N	REFR. KORJ.	VUOKSI-KORJ.	LATTA-KORJ. B - S U U N T A A N	REFR. KORJ.	VUOKSI-KORJ.	KORKEUS-ERO	EDEST. MITT. ERO	ERON SUMMA	PAINO-VOIMA	GEOPOT. ERO	KORKEUS LÄHTÖP. VERRATT.
54337	K												1112.37		0.00
		1.585	1.585	0.00	0.14	0.01	0.02	0.13	0.03	-3041.94	1.07	1.07		-2987.53	
54338	M												1113.41		-3041.94
		1.637	3.222	0.04	0.05	0.01	-0.04	-0.07	0.01	255.16	0.02	1.09		250.59	
54339	K												1114.19		-2786.78
		1.615	4.837	0.01	0.01	0.10	-0.01	-0.14	-0.10	769.93	-1.22	-0.13		756.16	
54340	K												1114.79		-2016.85
		1.987	6.824	0.32	0.84	0.12	-0.27	0.02	-0.10	17830.78	3.01	2.88		17511.86	
54341	K												1113.94		15813.93
		1.473	8.296	0.10	-0.18	0.01	-0.04	0.59	-0.04	3925.20	0.86	3.73		3854.99	
54342	K												1114.59		19739.13
		1.632	9.928	-0.40	-0.26	0.01	0.20	-0.98	-0.01	-20623.13	-0.70	3.04		-20254.33	
54343	K												1119.86		-884.00
		1.997	11.925	-0.06	-0.42	-0.02	0.04	-0.16	-0.03	-7666.36	2.48	5.51		-7529.30	
54344	M												1122.74		-8550.36
		1.404	13.329	0.00	0.07	0.03	-0.01	-0.03	-0.03	388.56	-0.40	5.11		381.61	
3036	S												1123.57		-8161.80
		1.562	14.891	0.04	0.08	0.03	-0.04	-0.08	-0.06	2327.17	0.39	5.50		2285.57	
92103	M												1124.96		-5834.63
		2.072	16.963	0.03	-0.10	0.04	-0.08	0.31	0.03	4300.74	0.27	5.76		4223.87	
54345	M												1126.80		-1533.89
		2.539	19.502	0.03	-0.46	0.03	-0.06	0.25	-0.03	377.21	-1.16	4.61		370.47	
78012	K												1128.33		-1156.68
		2.372	21.873	-0.02	0.14	0.06	0.01	-0.29	-0.07	-887.72	2.51	7.12		-871.86	
92104	S												1130.18		-2044.40
		1.654	23.527	0.15	0.01	0.07	-0.16	-0.11	-0.09	11913.35	0.22	7.34		11700.45	
54346	K												1129.11		9868.94
		1.163	24.690	0.09	0.58	0.06	-0.09	-0.91	-0.06	15151.18	-0.36	6.98		14880.40	
92105	K												1126.47		25020.12
		0.099	24.789	-0.01	-0.19	0.00	0.01	-0.01	0.00	-2495.02	-0.33	6.65		-2450.43	
3041	K												1126.51		22525.10
SUMMAT:				0.33	0.32	0.54	-0.51	-1.48	-0.55	22525.10				22122.54	

KESKIM. VAAITUSAIKA = 1992.56
TARKKUUS : EETTA 1 = 0.441 MM/SQRT(KM)
EETTA 2 = 0.477 MM/SQRT(KM)
SYSTEMAATTISUUS = 0.141 MM/KM

Figure 4.7: The computation document of the levelling line Kelvä-Tiensuu, which was measured in 1992.

Chapter 5

Rod comparators

The length changes of rod scales have a direct impact for rod readings and thus for height differences. In rod calibrations a linear coefficient (μm/m) for the rod's scale at 20°C and a thermal expansion coefficient (μm/m)/°C are determined. In the rod scale calibrations, the true positions of graduation lines are measured using a laser interferometer. The rods are moved along rails and the graduation lines are positioned precisely using a microscope or CCD camera. In the system calibration, the true distances are compared to the height differences which are observed by the levelling instrument. Abbe's law has been applied in the construction of the comparators, i.e. the calibrated line is the direct continuation of the reference line [28].

During the Second Levelling the positions of the graduation lines were observed using microscopes and a steel and invar normal metre were used as length standards [4]. However, during the Third Levelling, FGI rod comparators were used. In the first version, the rods were calibrated manually in a horizontal position. Later versions allowed calibrations in horizontal and vertical positions. System calibrations of the digital levels were started in 2002.

5.1 The horizontal comparator

The first comparator was in a horizontal position on an optical bench in the FGI laboratory at Ilmala in 1974–1978. The main components were the HP 5525A laser interferometer, a retro-reflector and a microscope. The rods were shifted under the microscope using conveyers on steel rails. The calibration was performed manually. The measuring accuracy was from 2 to 3 ppm and it was dependent on the quality of graduation lines [29].

5.2 The horizontal-vertical comparator

Since 1978, calibrations have been performed in a horizontal-vertical comparator. The prototype of the world's first vertical laser rod comparator was designed and tested in 1975 and it was constructed in 1978–1980. In the comparator, the rods were moved along the 10 m horizontal and 8 m vertical wooden frames. It was used in 1978–1994 and was housed in an unheated room in the water tower building at Ilmala.

The laser interferometer HP 5526A was the length standard, and the measuring microscope was the BK 70x50 Carl Zeiss Jena. A beam splitter turned the laser beam into the vertical direction. Two guide wires kept the movement of rods parallel in relation to the laser beam. On average, the lengths of the rod scales were 3.7 μm/m shorter in a vertical position than in a horizontal position [30]. For the vertical part a lift system with a counterweight was designed.

Only five to ten percent of the graduation lines and four microscope marks were measured. The marks were engraved at the distance of one metre on the invar band. The standard deviation of the graduation line calibration was ± 5 μm and in the microscope mark calibration it was ± 4 μm [31]. The calibration of all graduation lines was performed once or twice during the life span of rthe ods. During that time, the thermal expansion coefficients were determined using the horizontal laser rod comparator in the Helsinki University of Technology laboratory in Otaniemi. In the unheated FGI laboratory, the determination of thermal expansion coefficients was impossible.

5.3 The rod comparator at the Masala laboratory

FGI moved to Masala in 1995, and a new rod comparator was constructed [32]. In the new version, an HP 5529A was used as a laser interferometer, and a CCD camera COHU with a Matrox Meteor board was used instead of a measuring microscope. It had an automated weather station with a Vaisala QLI50 interface, HUMICAP MPD35 temperature and humidity sensors, and a PT100 pressure sensor. The rods were moved in a linear rigid conveyer using a stepping motor and the movement was balanced with counterweights. The comparator was controlled by Visual Basic controlling software.

In rod scale calibrations, the positions of the graduation lines were measured twice from the bottom to the top and the back at three temperatures. One calibration lasted about 90 min depending on the type of rod scale. The measuring accuracy of the calibration depended on the quality of the rod scale, and with 95% confidence it was between 0.7 ppm and 2.0 ppm [33]. The thermal expansion coefficient was based on the measurements of one graduation line interval at different temperatures. The accuracy, which was obtained from six independent measurements was approximately 0.2 (μm/m)/°C.

In 2002 system calibration was added to the measuring features [34]. In system calibrations rod readings from the levelling instrument are compared to the laser interferometer readings and thus the rod corrections include not only rod scale information but also how well instruments interpret the scale [35]. System calibration corrections were not utilized in the rod corrections of the Third Levelling observations.

Chapter 6

The computation of the N2000 heights

In this chapter the computation of the Finnish levelling observations and the adjustments are presented. The selection of the EVRF2000 datum was originally based on the work done in the Working Group for Height Determination of the Nordic Geodetic Commission (NKG). Before the adjustments, the observations were corrected to the system epoch 2000.0 using the Nordic land uplift model NKG2005LU.

In 2002 the General Assembly of the Nordic Geodetic Commission (NKG) accepted a resolution, which considered it desirable that the Nordic countries "adopt [height] systems with minimal differences from each other and from the European Vertical Datum". Following the NKG proposal [36] the Technical Working Group (TWG) of the International Association of Geodesy (IAG) and its subcommission for Europe (EUREF) recommended a close co-operation between the NKG, all countries around the Baltic, the Netherlands, and the United European Levelling Network (UELN) computing centre. Subsequently, Estonia, Latvia, Lithuania, Poland, Germany and the Netherlands made their levelling data used in the EVRF2000 available to the NKG.

The N2000 height system differs only a little from its Nordic counterparts due to the joint BLR adjustment and the inclusion of levelling lines from neighbouring countries. Additionally, the new Swedish height system RH2000 is based on the adjustment of the BLR data [37]. The difference between the Finnish and Swedish height systems is less than 2 mm at the boundary zone [38]. Both height systems are based on the adjustment of the BLR data, so the countries have the same datum, land uplift model, and weighting of observations. Comparison with the European Vertical Reference Frame 2007 (EVRF2007) [39] shows that the N2000 heights are about 9 mm greater than the EVRF2007 heights.

In the first adjustment step, the height of the N2000 main point PP2000 was computed using the collected data. In the second step this value was fixed in the N2000 adjustment. The fundamental bench mark PP2000 is in Kirkkonummi at the Metsähovi Research Station.

Rod readings, sight distances, temperatures and other collected data were combined and associated corrections calculated before the adjustments. The pre-adjustment reductions were presented in the line papers i.e. the observation

documents of entire lines, which were computed annually after the field seasons. At that stage, the height differences were in their observation epochs.

6.1 Corrections

The applied corrections are: refraction, rod scale, tidal deformation, and in the case of the Zeiss Ni002 level, the influence of the Earth's magnetic field. The corrected metric height difference ΔH_{m} is:

$$\Delta H_{\mathrm{m}} = \Delta H_{\mathrm{m,obs}} + C_{\mathrm{ref}} + C_{\mathrm{rod}} + C_{\mathrm{tidal}} + C_{\mathrm{magn}} + C_{\mathrm{tidal,p}} \tag{6.1}$$

where:

- C_{ref} is the refraction correction due to vertical air temperature differences,
- C_{rod} is the rod correction which takes into account the change in rod scale length in varying air temperatures,
- C_{tidal} is the tidal correction for the crustal deformation during the measurement due to tidal deformation of the Earth,
- C_{magn} is the magnetic correction for the Zeiss Ni 002,
- $C_{\mathrm{tidal,p}}$ is the permanent tidal deformation.

The metric height differences were converted into geopotential differences using the mean gravity of the bench mark interval (Formula 6.2). The gravity related height difference in geopotential units is:

$$\Delta H_{gpu} = 0.5(g_1 + g_2)\Delta H_m \tag{6.2}$$

where:

- ΔH_{gpu} is the geopotential difference, (10 $\mathrm{m^2 s^{-2}}$),
- g_1 and g_2 are the interpolated gravity values at bench marks 1 and 2, (10 $\mathrm{ms^{-2}}$),
- ΔH_m is the metric height difference, (m).

The geopotential difference is about 2% smaller than the corresponding metric difference. A height difference of one metre is about 0.98 gpu or 980 mgpu. The gravity values were interpolated from the five kilometre gravity grid of the First Order Gravity Network of Finland [40].

6.1.1 Refraction correction

By definition, the levelling refraction is the bending of the sight line from the horizontal level due to changes in the refractive index along the path of the line-of-sight. The correction is based on the works of Kukkamäki [41, 42]. The refraction correction in mm for one setup using the Kukkamäki formula is

$$C_{\mathrm{ref}} = -10^{-5} \cdot 70 \cdot \left(\frac{s}{50}\right)^2 \Delta T \frac{\Delta H}{5} \tag{6.3}$$

In the formula:

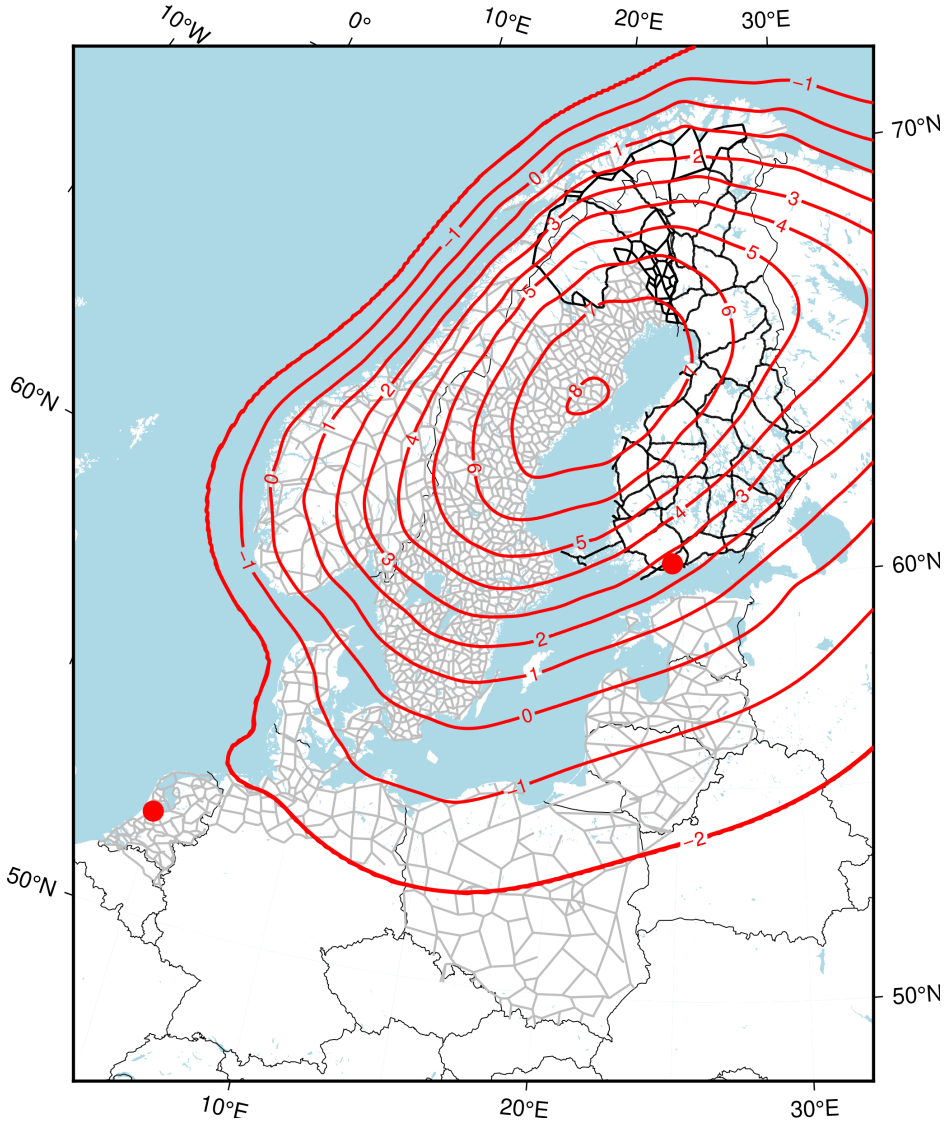

Figure 6.1: The land uplift model NKG2005LU and the network of the Baltic Levelling Ring. The black lines belong to the network of the N2000 adjustment. Isobases show the vertical velocity in mm/yr relative to the mean sea level (1892–1991). Outside the –2 mm/y isobase the value is set to be constant –2 mm/year. The red dots indicate fixed bench marks in the BLR and N2000 adjustments.

- The constant of 70 was proposed by Hytönen[24]. Determination of the parameter is based on a vertical temperature distribution and the height of a levelling instrument [41, 42, 43],
- s is the sight distance (m),
- ΔT is the temperature difference above the ground: T(2.5 m)-T(0.5 m),°C
- ΔH is the height difference in mm.

6.1.2 Taavitsainen formula for the temperature gradient estimation

The Taavitsainen prediction model [25] was used in the estimation of missing temperature differences. The input data for the model includes a zenith distance of the Sun z (degrees); short-period shimmering (turbulence) of air v, expressed in whole numbers from 0 to 3; air temperature T (°C); cloud cover c, expressed in whole numbers from 0 to 10 and wind speed w (m/s). Only the Sun's zenith distances are precise values. The surveyors estimated the input values for v, c and w.

If the temperature data was missing due to rain, then the constant value of -0.1°C was used. Consequently, the Taavitsainen predictions were not used for rainy day observations. If the input data for the Taavitsainen model was not complete, then the value of -0.2°C was used.

The predicted values were corrected using ground surface information. On dirt roads the temperature differences are smaller than above railway or asphalt surfaces. Taavitsainen predictions were accepted on asphalt roads and on crushed stone along railways. If a ground surface was only partly covered with asphalt or railway crush stone, the predicted value was multiplied by 0.75. If a levelling route was on unpaved roads, then only a half of the predicted value was used.

The Taavitsainen formulas were different for the spring and autumn seasons and for the morning and evening hours. Formulas 6.4 and 6.6 were used if the observations were performed before noon. With the afternoon and evening observations, Formulas 6.5 and 6.7 were used. The spring season formulas are:

$$\begin{aligned} \Delta T &= 0.74772 - 0.03961z - 0.21019v - 0.016054c - 0.05993w + \\ &\quad +0.00403zc + 0.00148T^2 + 0.00849c^2 \end{aligned} \tag{6.4}$$

$$\begin{aligned} \Delta T &= -0.38037 - 0.00170zT + 0.00103zc - 0.02322vc + \\ &\quad +0.00140T^2 + 0.00133Tc \end{aligned} \tag{6.5}$$

The autumn season formulas are:

$$\Delta T = 0.361 - 0.015z - 0.020c - 0.17vT - 0.004Tw + 0.007cw, \tag{6.6}$$

$$\begin{aligned} \Delta T &= 1.161 - 0.025z - 0.073T - 0.182c + 0.002zc - 0.053vw + \\ &\quad +0.002T^2 + 0.011c^2 + 0.002w^2 \end{aligned} \tag{6.7}$$

6.1.3 Rod correction

Rods were calibrated before and after field seasons. The rod scale lengths were assumed to change linearly between the calibration epochs. A thermal expansion coefficient was the average value from the calibrations. For every rod pair, one model was used for the spring season (January–June) and another model was used for the rest of the year. The calibrations are presented in Appendix B. The rod correction in μm is:

$$C_{\text{rod}} = (\lambda + \alpha\,(T - 20°\text{C}))\,\Delta H \tag{6.8}$$

where

- λ is the rod scale correction (μm/m) at 20°C,
- α is the expansion coefficient (μm/m)/°C,
- T is the temperature (°C) and
- ΔH is the height difference (m).

6.1.4 Tidal correction

The Earth's temporal tidal deformation is corrected using the formulas and computer programs by Heikkinen[44].

For the Earth's permanent tidal deformation, a mean tidal system and a zero tidal system are used in the computations. In a zero tidal system, the permanent tidal attraction of the Moon and the Sun is removed, but the resultant permanent tidal deformation of the Earth is retained. In a mean tidal system the permanent tidal deformation and the tidal attraction is retained. In the previous height systems, the permanent tidal deformation was in a mean tidal system (mean geoid), which represents the natural behaviour of the Earth's crust and is approximately the mean sea level.

In the N2000 height system, the permanent tidal deformation is in a zero tidal system, but the Finnish and other European levelling observations were computed and adjusted in a mean tidal system. The difference between the mean and zero tidally corrected heights $\text{C}_{\text{tidal,p}}$ is computed relative to NAP using Formula 6.9 [45]:

$$\begin{aligned} C_{\text{tidal,p}} &= \Delta H_{\text{m-z}} = H_{\text{mean}} - H_{\text{zero}} \\ &= 29.6\left(\sin^2\varphi - \sin^2\varphi_{\text{NAP}}\right)\ \text{cm} \end{aligned} \tag{6.9}$$

where

- H_{mean} is the height in a mean tidal system,
- H_{zero} is the height in a zero tidal system,
- $\varphi_{\text{NAP}} = 52.38137°$ is the latitude of NAP,
- φ is the bench mark's latitude.

Table 6.1: Magnetic field coefficients for the Zeiss Ni002 levelling instruments

Instrument	Coefficient
423140	0.033 mm/km
429963	0.063 mm/km
456704	0.002 mm/km
460178	– 0.106 mm/km
430209	0.041 mm/km

In the observation list $\Delta H_{\text{m-z}}$ is presented in geopotential units. The transformation from cm to mgpu is done using the normal gravity [46]

$$\begin{aligned}\gamma_0 &= 978032.67715(1 + 0.0052790414\sin^2\varphi + 0.0000232718\sin^4\varphi \\ &\quad +0.0000001262\sin^6\varphi + 0.0000000007\sin^8\varphi)10^{-5}\ \text{m/s}^2 \end{aligned} \tag{6.10}$$

This is the normal gravity on the surface of the GRS80 reference ellipsoid. In Finland, the value is from 9.819 m/s^2 to 9.826 m/s^2 .

6.1.5 Magnetic correction

The magnetic corrections are applied to the Zeiss Ni002 observations. Rumpf and Meurisch presented the point that automatic levels are sensitive to the Earth's magnetic field[47]. At the Finnish Geodetic Institute, Kukkamäki and Lehmuskoski studied this phenomenon [16] by placing instruments into a Helmholtz coil, which generates a strong magnetic field. By repeating observations on different magnetic field strengths, they estimated the influence of the magnetic field on the levelling instruments. The magnetic field coefficients are presented in Table 6.1.

The influence of the Earth's magnetic field is corrected by the formula:

$$C_{\text{magn}} = \frac{H_1}{15000} M \cdot S \cdot \cos(A + D) \tag{6.11}$$

where

- H_1 is the horizontal intensity of the magnetic field (nT),
- M is the magnetic field coefficient of the instrument (mm/km),
- S (km) is the length of the straight line between the bench marks.
- A is the azimuth of the bench mark interval and
- D is the declination of the magnetic field,

Properties of the magnetic field were extracted from the magnetic charts [48]. In the levelling computations the declination of the magnetic field has been computed using the formula:

$$\begin{aligned} D &= (27.6 - 0.66\Delta\varphi + 33.97\Delta\lambda - 0.291(\Delta\varphi)^2 - \\ &\quad -0.185(\Delta\lambda)^2 + 1.163(\Delta\varphi\Delta\lambda)/60 \end{aligned} \tag{6.12}$$

and the horizontal intensity using the Formula:

$$H_1 = 13879.6 - 412.43\Delta\varphi + 29.11\Delta\lambda - 1.367(\Delta\varphi)^2 - \\ -2.259(\Delta\lambda)^2 + 0.802\Delta\varphi\Delta\lambda \quad (6.13)$$

where the latitude difference $\Delta\varphi$ is $\varphi - 63^\circ$ and the longitude difference $\Delta\lambda$ is $\lambda - 16^\circ$.

6.1.6 Land uplift correction

The recommendation of the NKG was followed to correct the height differences to epoch 2000.0 with the land uplift model NKG2005LU (Figure 6.1). This model is a combination of the geophysical land uplift model by Lambeck et al.[49] and Vestøl's empirical land uplift model [50]. The description of the NKG2005LU model is presented in [37]. This land uplift model was also used with the new height system adjustments in Sweden and Norway, and later with the European Levelling network adjustment EVRF2007 made by the United European Levelling Network (UELN) computing centre [39].

Lambeck's model covers the whole area of the Baltic Levelling Ring. It employs tide gauge observations mainly at the Baltic Sea and information about the tilting of the water level of the largest lakes in Sweden and Finland.

Vestøl's empirical land uplift model is based on the repeated precise levellings, uplift rates from the continuously operating GPS stations [51], and the tide gauge uplift rates for 58 tide gauges around the Baltic and adjacent waters [52]. The data in the model includes the three Finnish precise levellings. One disadvantage is that Vestøl's model does not cover the whole area of the Baltic Levelling Ring. The NKG2005LU uplift rates (mm/y) were converted into mgpu/y by multiplying it with normal gravity γ_0 (Formula 6.10).

The land uplift correction is computed using the difference between the observation and system epochs and the uplift rate difference:

$$C_{\text{upl}} = (2000.0 - t)(L_{\text{end}} - L_{\text{start}}) \quad (6.14)$$

The geopotential difference at the system epoch 2000.0 is:

$$\Delta H_{\text{mgpu,2000}} = \Delta H_{\text{mgpu,t}} + C_{\text{upl}}. \quad (6.15)$$

In these formulas:

- t is the observation epoch,
- $\Delta H_{\text{mgpu,t}}$ is the observed geopotential difference, and
- L_{start} and L_{end} are the land uplift rates of the start and end bench marks (mgpu/y).

6.1.7 Example. Corrections

As a computation example is a bench mark interval 35007-78016, its height difference in the zero tidal system is -80.47 mgpu. The land uplift values of the bench marks 35007 and 78016 are 2.303 mgpu/y and 2.318 mgpu/y, respectively.

If the observation epoch is 1979.75, then the land uplift correction (Formula 6.14) for the observation is:

$$\begin{aligned} C_{\text{upl}} &= (2000.0 - 1979.75)\ \text{y} \cdot (2.318 - 2.303)\ \text{mgpu/y} \\ &= 20.25\ \text{y} \cdot 0.015\ \text{mgpu/y} = 0.31\ \text{mgpu}. \end{aligned}$$

If the height difference in the observation epoch is -80.47 mgpu, then the land uplift corrected value in the epoch of 2000.0 would be:

$$-80.47\ \text{mgpu} + 0.31\ \text{mgpu} = -80.16\ \text{mgpu}.$$

In the observation list, the height differences are in the zero tidal system. From Formula 6.9 it easily follows that the height difference in the mean tidal system from start to end would be:

$$\Delta H_{\text{mean}} = \Delta H_{\text{zero}} + C_{\text{tidal,zero}\rightarrow\text{mean}}, \tag{6.16}$$

where

$$C_{\text{tidal,zero}\rightarrow\text{mean}} = \Delta H_{\text{m-z,end}} - \Delta H_{\text{m-z,start}}\ \text{mgpu}. \tag{6.17}$$

The tidal system differences $H_{\text{mean}} - H_{\text{zero}}$ are 36.52 mgpu (BM 35007) and 36.56 mgpu (BM 78016). Therefore, the correction is:

$$C_{\text{tidal,zero}\rightarrow\text{mean}} = 36.56 - 36.52 = 0.04\ \text{mgpu}.$$

The height difference relative to the mean geoid is

$$\begin{aligned} \Delta H_{\text{mean}} &= -80.47 + C_{\text{tidal,zero}\rightarrow\text{mean}} \\ &= -80.47 + 0.04 = -80.43\ \text{mgpu}. \end{aligned}$$

6.2 The accuracy of the Third Levelling

In this section, several methods are applied to compute the accuracy estimates for the Third Levelling. The first solution is based on the classical computation using the closing errors of levelling loops [4]. Other solutions are based on the differences between the fore and back measurements. It is possible to use differences at every bench mark interval or only cumulative sums of differences along the entire line.

The standard deviation m, using the closing errors of the levelling loops (Figure 6.2), is

$$\begin{aligned} m^2 &= \frac{1}{n+1}\left(\sum_{i=1}^{n}\frac{\varphi_i^2}{F_i} + \frac{\varphi_e^2}{F_e}\right), \\ m &= \pm 0.86\ \text{mm}/\sqrt{\text{km}} \end{aligned} \tag{6.18}$$

where

- n is the number of the loops,

- φ_i is the closing error in the loop (mm),
- F_i is the circumference of the loop (km),
- φ_e is the closing error of the circumference of the network (mm) and
- F_e is the length of the circumference of the network (km).

The following standard deviations are computed using the observations in the precise levelling network, at the crustal fault lines, and at the lines for the tide gauges. The observations to the GPS stations, the maintenance measurements, and the water crossing measurements are not used in these computations.

Next, the standard deviation m_1 is computed using the differences between the fore and back measurements at every bench mark interval [8]:

$$\begin{aligned} m_1^2 &= \frac{1}{4n_r} \sum \frac{\Delta^2}{r}, \\ m_1 &= \pm 0.44 \text{ mm}/\sqrt{\text{km}}. \end{aligned} \tag{6.19}$$

The standard deviation m_2 is computed from the cumulative sum of fore and back measurement differences of the entire line [8]:

$$\begin{aligned} m_2^2 &= \frac{1}{4n_L} \sum \frac{S^2}{L}, \\ m_2 &= \pm 1.05 \text{ mm}/\sqrt{\text{km}}. \end{aligned} \tag{6.20}$$

In the formulas:

- Δ is the difference between the fore and back measurements of the bench mark interval (mm),
- r is the length of a bench mark interval (km),
- n_r is the number of bench mark intervals,
- S is the cumulative sum between the fore and back measurements of the whole line (mm), and
- L is the length of line (km),
- n_L is the number of levelling lines.

The systematic behaviour of the DiNi12 levels can also be seen from the accuracy estimates when the DiNi12 measurements are compared to older measurements. Using the differences at every bench mark interval, the older observations have a standard deviation of ± 0.43 mm/$\sqrt{\text{km}}$ and the DiNi12 observations ± 0.51mm/$\sqrt{\text{km}}$. Using the cumulative sums of the entire lines, the standard deviation for the older levellings is ± 0.78mm/$\sqrt{\text{km}}$ and is ± 2.03 mm/$\sqrt{\text{km}}$ for the DiNi12 observations.

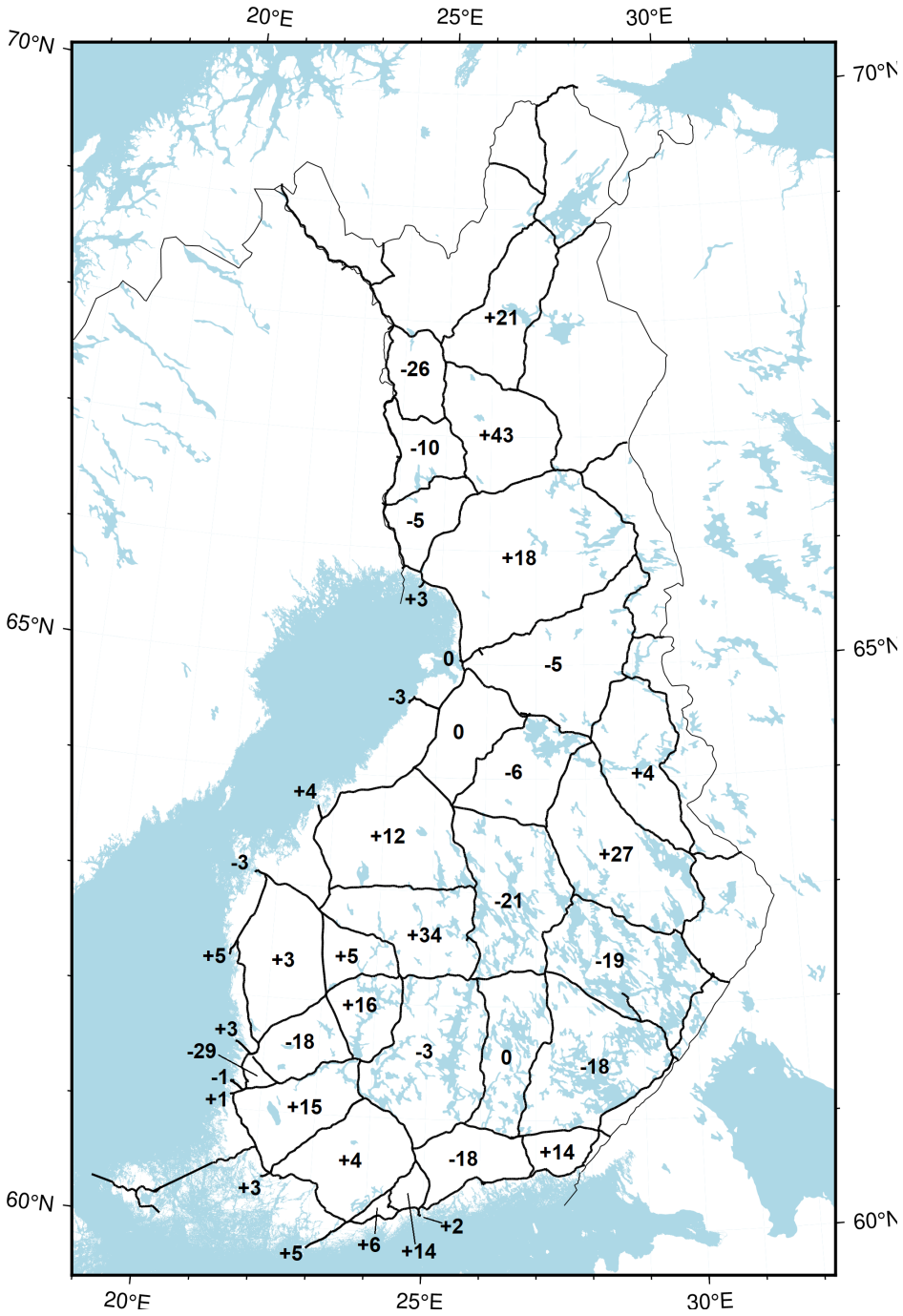

Figure 6.2: The closing errors of the Third Levelling in millimetres.

6.3 EVRS definition

The height system N2000 is based on the definition of the European Vertical System (EVRS) [53]. The N2000 datum is same as in the EVRS realisation the European Vertical Reference Frame 2000 (EVRF2000). This datum is realized by the zero level through the Normaal Amsterdams Peil (NAP). Following this, the geopotential number in the NAP is zero:

$$C_{\mathrm{NAP}} = 0.$$

For related parameters and constants the Geodetic Reference System 1980 (GRS80) is used. Following this the Earth gravity field potential through NAP, W_{NAP} is set to be the normal potential of the GRS80

$$W_{\mathrm{NAP}}^{\mathrm{REAL}} = U_{0,\mathrm{GRS80}}.$$

6.4 The adjustment of the Baltic Levelling Ring

The heights from the BLR adjustment are relative to the NAP. The fixed bench mark in the BLR adjustment was 000A2530, which has the UELN number 13600. All Finnish observations were included in the Finnish version of the BLR. The BLR solutions which were made in other countries had only nodal point data from Finland.

The Baltic Levelling Ring (BLR) adjustments were performed simultaneously in several countries. The results of the Finnish, Swedish, Norwegian and Danish experts were compared. In Finland, Sweden and Norway the work produced national height systems. In the adjustment, there were levelling data from ten countries. The role of the BLR adjustment in Finland was to provide a starting value for the national N2000 adjustment.

A description of the levelling data is presented in Table 6.2 and the statistics of the adjustment are in Table 6.3. An average precision of Finnish bench marks in the Finnish BLR/FI adjustment is 23.7 mgpu and at Metsähovi the precision is 24.4 mgpu (Figure 6.3).

From mainland Finland to Åland Islands is one line without any adjustment corrections. In the N2000 adjustment, the precision at Åland Islands is 18 mgpu and in the BLR/FI adjustment the precision is 30 mgpu.

The adjustments were made using the software Local X-Positioning. In the levelling network adjustment, the weight of each observation is inversely proportional to the distance of the bench mark interval. A priori standard deviations for the levelling campaigns were determined by K. Engsager[54]. The adjustment data and a priori standard deviations for the national networks are presented in Table 6.2.

6.5 The N2000 adjustment

In the N2000 adjustment, the Finnish part of the BLR/FI network and some loops in Sweden and Norway were adjusted together (Figure 6.1). Because all the N2000 observations are part of the BLR/FI, no significant differences exist between the solutions. An average precision relative to the fixed bench mark

Table 6.2: Data used in the BLR2000 adjustment. For the Norwegian data two different standard deviations were used: before 1974 (1.36) and since 1974 (1.11). The middle epoch of the country's time span was used for Latvian observations and the observations with missing epochs in other countries (column "Default epoch")[54].

Country	Time span	Mean epoch	Default epoch	Std. Dev.
Denmark	1986–1992	1990.0		0.88
Finland	(1962–)1978–2003	1991.0		0.77
Norway	1916–2003	1963		1.36/1.11
Sweden	1977–2003	1989.8		1.01
Estonia	1959–1996	1980	1979.0	1.48
Latvia	1968–1988	(1978)	1978.5	1.66
Lithuania	1933–1998	1982	1966.0	1.01
Poland	1973–1980	1977.3		0.97
Germany	1974–1992	1980	1983.5	0.82
Netherlands	1969–1975	1972	1972.5	1.09

PP2000 in the N2000 adjustment is 10.2 mgpu. The national datum PP2000 for the N2000 adjustment is located at the Metsähovi Research Station.

The number of Finnish bench marks in the N2000 adjustment is 6285 and it has 7165 observations. There are 227 bench marks which are from Sweden or Norway. Using common loops in Sweden and Norway the transition across the borderline areas is smooth. The same accuracy estimates were used in the N2000 adjustment as in the BLR/FI adjustment.

6.6 From the geopotential numbers to the N2000 normal heights

In the adjustments the observations were as geopotential differences and thus the adjustment results are in geopotential units. In co-operation with the working group of the NKG and the UELN computing centre, it was decided that all the computations are performed in a mean tidal system. Consequently, the first stage after adjustments was to transform the geopotential units from the mean tidal system to the zero tidal system. The tidal system conversion was done using the Formula 6.9. In this report, the observations and results are presented in a zero tidal system.

The N2000 is a normal height system and thus the geopotential numbers from adjustments are converted into metric heights using GRS80 normal gravity instead of real gravity values. The reference surface is called the quasigeoid. The difference between the geoid and the quasigeoid is dependent not only on the bench mark's height but also on the local gravity anomaly. These coincide at the mean sea level. N2000 normal heights [1] were computed using standard formulas [55]. The normal height is:

$$H^N = \frac{c}{\bar{\gamma}} \tag{6.21}$$

where:

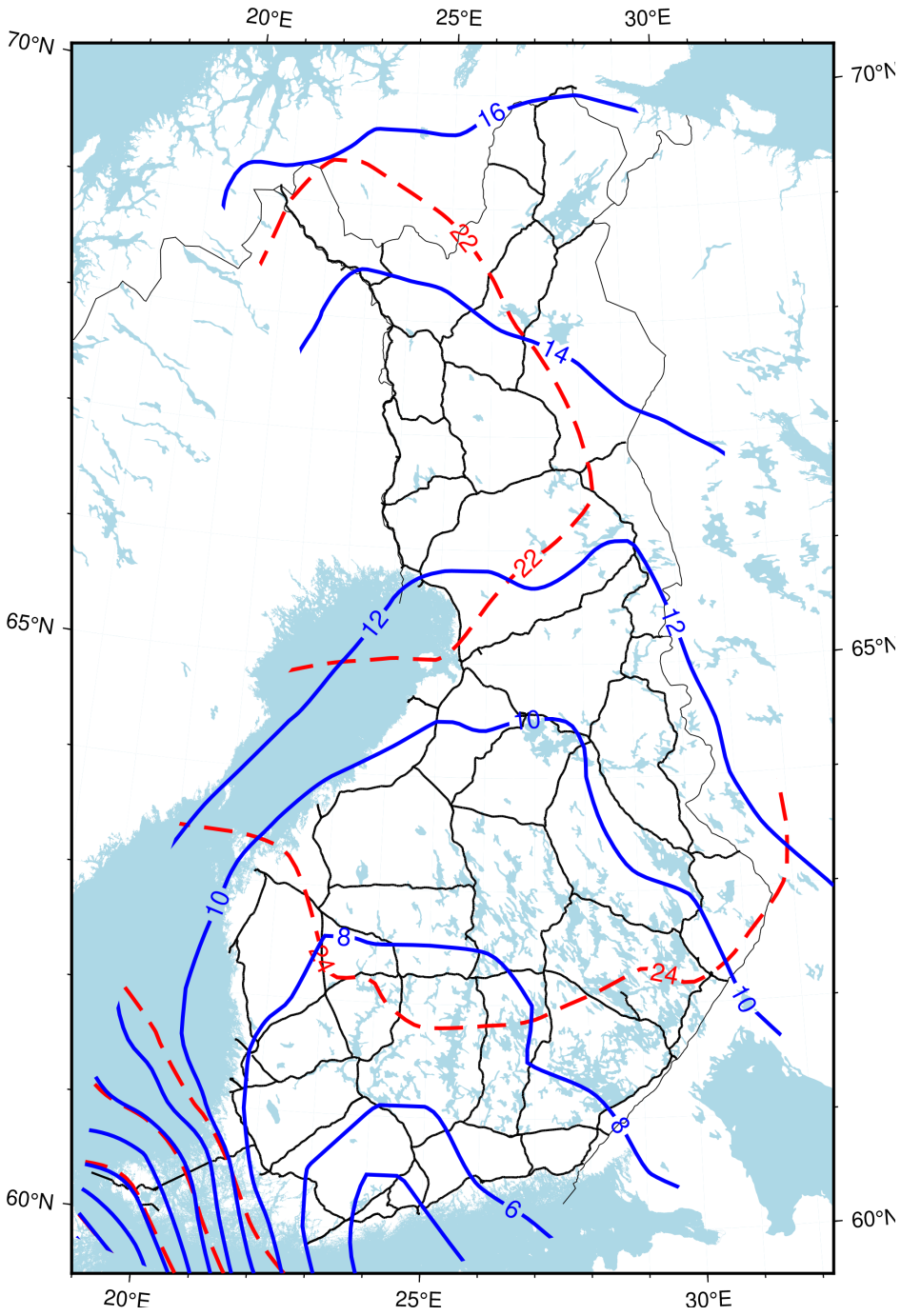

Figure 6.3: Precision relative to the NAP from the BLR/FI adjustment (dashed red contours, mgpu) and relative to Metsähovi from the N2000 adjustment (blue contours, mgpu).

Table 6.3: Statistics of the BLR/FI and N2000 adjustments.

	BLR/FI	N2000
Datum point	000A2530/13600	PP2000
Coordinates of the datum	4.90958° E	24.39510°E
	52.38137°N	60.21759°N
Geopotential number	0.70259 gpu	53.43965 gpu
at the datum		(zero tidal)
Number of unknowns	13028	6560
Number of measurements	14996	7165
Redundancy	1968	605
	(On the average 0.13)	(On the average 0.08)
A posteriori	0.99	0.93
standard deviation		
Average precision (mgpu)	20.2	10.2

- c is the geopotential number and
- $\bar{\gamma}$ is the mean normal gravity

The mean normal gravity is computed in the direction of the ellipsoidal normal from the ellipsoidal level to a point, where the potential difference in the normal gravity field coincides with the bench mark's potential above the quasigeoid. The formula for the mean normal gravity $\bar{\gamma}$ is

$$\bar{\gamma} = \gamma_0 - \frac{1}{2} k H_m, \tag{6.22}$$

where

- γ_0 is the normal gravity on the ellipsoidal level (Formula 6.10),
- H_m is the approximate normal height and
- $k = 0.3086 \cdot 10^{-5} \mathrm{s}^{-2}$.

The difference between the height systems N60 and N2000 is illustrated in Figure 6.4. The system difference is mostly due to the datum point selection and land uplift. In the bench mark list [1], the height system differences from N60 to N2000 are presented at every bench mark.

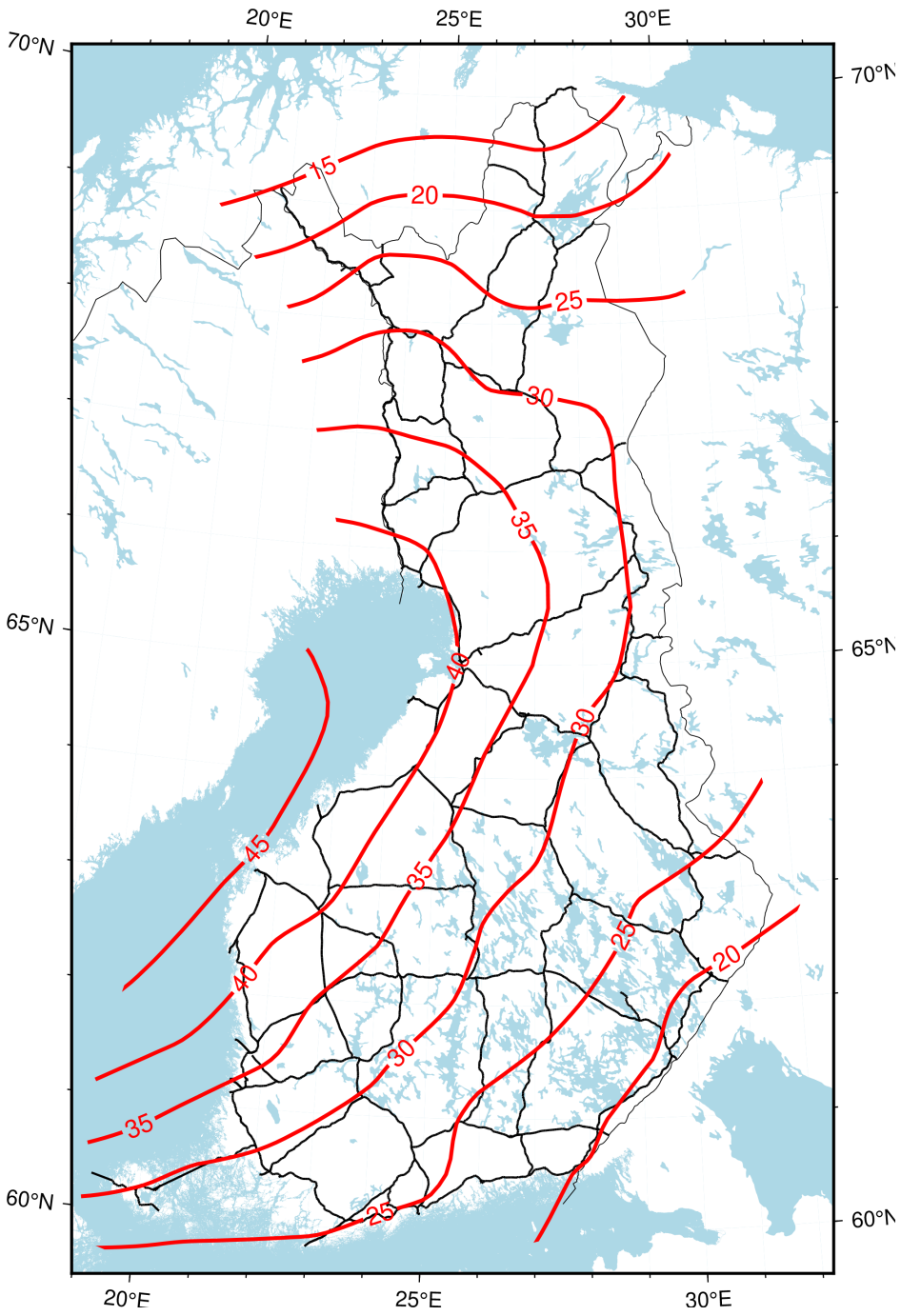

Figure 6.4: Difference between the Finnish height systems N60 and N2000, in centimetres

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Appendix A

Yearly progress of the Third Levelling

The description of the columns

1. Year or Line
2. From where to where
3. End points
4. Length (km).Tide gauge lines have been marked with 1).
5. The serial number of the levelling instrument
6. The serial numbers of the rod pair
7. Observer. JMÄ = Jaakko Mäkinen, MTA = Mikko Takalo, PLE = Pekka Lehmuskoski, EHY = Erkki Hytönen, JKÄ = Jussi Kääriäinen, VTA = Veli–Matti Taavitsainen, JJA = Juha Jaakkola, IVÄ = Irma Välimäki, PRO = Paavo Rouhiainen, VSA = Veikko Saaranen.
8. Levelled distance by the observer and level

1	2	3	4	5	6	7	8
1978							
3A, 3B	Oulunkylä–	68031–	24.08	429963	44611, 44612	JMÄ	
	Kerava	78107					
4	Pasila–	35007–	4.74	429963	44611, 44612	JMÄ	
	Oulunkylä	68031			44611, 44612		
11A	Oulunkylä–	68031–	15.64	429963	44611, 44612	JMÄ	
	Östersundom	53151					
B	Pasila–	35007–	7.68 1)	429963	44611, 44612	MTA	
	Helsinki tide gauge	7HB					
B2	Helsinki tide gauge–	7HB–	1.33 1)	429963	44611, 44612	MTA	
	Tähtitorninmäki	55003					
11B, 11C and	Östersundom–	53151–	107.77	429963	44611, 44612	MTA	75.50 km
11D,11X, 11E	Siltakylä	78233		423140		MTA	18.53 km
				429963		PLE	13.74 km
11G	Kangasmäki	78235–	1.11	429963	44611, 44612	MTA	
		78236					
		During 1978:	162.35				
1979							
10	Kouvola–	37062–	48.74	429963	44611,	PLE	
	Kyminlinna	74007			44612		
11F	Siltakylä–	78233–	5.39	429963	44611,	PLE	
	Kangasmäki	78235			44612		
11H	Kangasmäki–	78236–	6.77	429963	44611, 44612	PLE	
	Kyminlinna	74007					
3C	Kerava–	78107–	29.68	429963	44611, 44612	PLE	
	Hyvinkää	127					
8	Hyvinkää–	127–	13.49	429963	44611, 44612	PLE	
	Riihimäki	66040					
2.1	Hyvinkää–	127–	41.3	429963	44611, 44612	PLE	27.25 km
	Ojakkala	62					
				423140	44553, 44554	EHY	14.05 km
2.2	Ojakkala–	62–	53.97	429963	44611, 44612	PLE	2.20 km
	Karjaa	92					
				423140	44553, 44554	EHY	51.77 km
9.1	Riihimäki–	66040–	64.81	429963	44611, 44612	PLE	3.94 km
	Lahti	LKP270					
				456704	5395, 5396	MTA	52.24 km
				429963	5395, 5396	MTA	8.63 km
1.1	Pasila–	35007–	20.31	429963	44611, 44612	PLE	9.30 km
	Kauklahti	2183					
				456704	5395, 5396	MTA	11.01 km
1.2	Kauklahti–	2183–	6.9	456704	5395, 5396	MTA	
	Masala	62001					
9.2A, 9.2B	Lahti–	LKP270–	32.79	429963	5395, 5396	MTA	2.07 km
	Kausala	391					
				456704			13.96 km
				423196			13.30 km
				423191			3.46 km
9.2 C	Kausala	391–	-1.96	423191	5395, 5396	MTA	
	Rejected levelling	47001					
9.2D, 9.2E	Kausala–	47001–	24.03	423191	5395, 5396	MTA	23.14 km
	Kouvola	37062					
				456704			0.89 km
1.3	Masala–	62001–	53.83	456704	5395, 5396	MTA	7.54 km
	Karjaa	92					
				423140	44553, 44554	JKÄ	46.29 km
		During 1979:	402.01				

1	2	3	4	5	6	7	8
1980							
12	Kouvola–	37062–	80.95	423191	44553, 44554	PLE	67.03 km
	Simola	80130					
				423140			13.92 km
7	Riihimäki–	66040–	81.54	423140	44553, 44554	PLE	
	Toijala	184					
6	Toijala–Turku	184–254	116.71	423140	44553, 44554	PLE	110.94 km
				429963	44611, 44612	MTA	5.77 km
A	Hamina–	36189–	0.30 1)	423140	44611, 44612	MTA	
	Hamina tide gauge	P	1)				
15	Kyminlinna–	74007–	22.83	423140	44611, 44612	MTA	
	Hamina	36189					
14.1	Hamina–Vaalimaa	36189–38042	48.62	423140	44611, 44612	MTA	9.26 km
				429963		MTA	32.10 km
				423140		JKÄ	7.26 km
74	Vaalimaa–Simola	38042–80130	44.45	429963	44611, 44612	MTA	
5	Karjaa–Turku	92–254	118.04	456704	44617, 44618	VTA	60.28 km
				456704	44617, 44618	EHY	12.94 km
				429963	44611, 44612	MTA	44.82 km
C	Karjaa–	92–	53.41 1)	456704	44617, 44618	VTA	51.72 km
	Hanko tide gauge	126		429963	5395, 5396	JJA	34.98 km
				430209	52371, 52372	JJA	12.04 km
				430209	52371, 52371	EHY	3.82 km
				423140	44611, 44612	PLE	4.26 km
		During 1980:	566.85				
1981							
21	Toijala–Tampere	184–64084	49.68	423140	44553, 44554	PLE	
20.1	Tampere–Lielahti	64084–TKP710	8.47	423140	44553, 44554	PLE	
20.2	Lielahti–	TKP710–	87.74	423140	44553, 44554	PLE	67.16 km
	Peipohja	1596		460178	44553, 44554	PLE	17.41 km
				456704	44611, 44612	MTA	3.17 km
19.1	Peipohja–Eurajoki	1596–1833	33.39	423140	44553, 44553	PLE	
19.2	Eurajoki–Lapijoki	1833–51310	4.25	423140	44553, 44554	PLE	
19.3	Lapijoki–Rauma	51310–51226	10.92	423140	44553, 44554	PLE	9.17 km
				456704	44611, 44612	MTA	1.75 km
25A	Tampere–Vatiala	64084–58001	9.66	423140	44553, 44554	PLE	
VAAA	Vaala fault line	Vaala1–Vaala6	16.51	423140	44553, 44554	PLE	
E	Rauma–	51226–	3.55 1)	423140	44553, 44554	PLE	2.06 km
	Rauma tide gauge	S1		456704	44611, 44612	MTA	5.04 km
18.1	Turku–Mynämäki	254–51008	34.85	456704	44611, 44612	MTA	
18.2	Mynämäki–Rauma	51008–51226	68.88	456704	44611, 44612	MTA	
D	Turku–	254–	15.20 1)	456704	44611, 44612	MTA	
	Turku tide gauge	257F					
26A, 26B	Haapamäki–	1027–	26.01	456704	44611, 44612	MTA	
	Asunta	81305					
26C, 26D	Asunta–Jyväskylä	81305–123A	55.62	429963	44617, 44618	VTA	
27.1	Jyväskylä–	123A–	4.84	429963	44617, 44618	VTA	
	Vaajakoski	78002					
		During 1981:	429.57				
1982							
25B, 25C	Vatiala–	58001–	105.92	456704	44553, 44554	PLE	19.12 km
	Haapamäki	1027		429963			86.80 km
28	Kouvola–	37062–	186.42	456704	44553, 44554	PLE	115.82 km
	Pieksämäki	593		429963			70.60 km
75	Lahti–	LKP270–	174.17	423140	44611, 44612	MTA	
	Vaajakoski	78002					
		During 1982:	466.51				
1983							
16	Simola–	80130–	54.21	456704	44553, 44554	PLE	4.11 km
	Imatra	38205		423140			50.10 km
30.1	Imatra–Parikkala	38205–52150	62.17	423140	44553, 44554	PLE	
30.2	Parikkala–Särkisalmi	52150–76004	7.4	423140	44553, 44554	PLE	
29.1A	Pieksämäki–Kallislahti	593–2391	93.96	460178	44553, 44554	PLE	

1	2	3	4	5	6	7	8
29.1B, 29.1C	Kallislahti–	2391–	-21.71	460178	44553, 44554	PLE	15.05 km
	Savonlinna	67012		423140			6.66 km
	Rejected levelling						
29.2A	Savonlinna–	67012–	-16.37	423140	44553, 44554	PLE	
	Kulennoinen	78010					
	Rejected levelling						
29.2B, 29.2C	Kulennoinen–	78010–	33.36	423140	44553, 44554	PLE	
	Särkisalmi	76004					
41A	Pieksämäki–	593–	39.03	460178	44553, 44554	PLE	
	Suonenjoki	63028					
27.2A, 27.2B	Vaajakoski–	78002–	41.64	429963	44611, 44612	IVÄ	25.24 km
	Sauvamäki	39067		460178		IVÄ	11.03 km
				429963		MTA	5.37 km
27.2C, 27.2D	Sauvamäki–	39067–	-32.63	429963	44611, 44612	MTA	
	Pieksämäki	593					
	Rejected levelling						
		During 1983:	331.77				
1984							
9.2C	Kausala	391–47001	1.96	460178	44611, 44612	PLE	
	Re–levelling						
27.2C, 27.2D	Sauvamäki–	39067–	32.63	429963	44617, 44618	PLE	17.23 km
	Pieksämäki	593		57633		MTA	10.37 km
	Simultaneous			460178		PLE	15.40 km
	re–levelling			500633		MTA	22.26 km
29.1B, 29.1C	Kallislahti–	2391–	21.71	460178	44553, 44554	PLE	
	Savonlinna	67012					
	Re–levelling						
29.2A	Savonlinna–	67012–	16.37				
	Kulennoinen	78010					
	Simultaneous			423140	44617, 44618	PLE	5.14 km
	re–levelling			429963		PLE	11.23 km
				57633		MTA	16.37 km
		During 1984:	72.67				
1985							
41B, 41C,	Suonenjoki–	63028–	64.16	460178	44611, 44612	PLE	7.16 km
41D	Toivala	62077		42332			57.00 km
43B	Onkamo–Joensuu	85211–54304	44.3	42332	44611, 44612	PLE	40.75 km
				460178			3.55 km
44A	Särkisalmi–Kitee	76004–54140	75.92	57633	44553, 44554	MTA	20.87 km
				62233			29.12 km
				48697			25.93 km
		During 1985:	184.38				
1986							
44B	Kitee–Tohmajärvi	54140–86205	30.7	500540	44611, 44612	PLE	
44X	Tohmajärvi sideline	54156–865	6.36	500540	44611, 44612	PLE	
43A	Tohmajärvi–Onkamo	86205–85211	8.41	500540	44611, 44612	PLE	
42	Toivala–Joensuu	62077–54304	135.45	500540	44611, 44612	PLE	56.18 km
				539580	44553, 44554	MTA	79.27 km
VAAB	Vaala fault line	Vaala1–Vaala6	16.51	500540	44611, 44612	PLE	
JOE	Joensuu	64093–65364	4.65	539580	44553, 44554	MTA	
	gravity points						
	Begins from line 43						
		During 1986:	185.57				
1987							
24.1	Noormarkku–Parkano	52225–50147	90.06	500540	44611, 44612	PLE	
23	Ruosniemi–Noormarkku	51117–52225	8.14	500540	44611, 44612	PLE	
22	Peipohja–Ruosniemi	1596–51117	47.66	500540	44611, 44612	PLE	
24.2	Parkano–Haapamäki	50147–1027	85.59	500540	44611, 44612	PLE	17.43 km
				557717	44553, 44554	PRO	46.27 km
				539580	44617, 44618	MTA	21.89 km
KAN	Kangasala fault line	58001–59002	4.57	500540	44611, 44612	PLE	
	On line 25.2						
76	Lielahti–	TKP710–	71.92	500540	44611, 44612	PLE	17.13 km
	Parkano	50147		557717	44553, 44554	PRO	15.84 km
				539580	44617, 44618	MTA	38.95 km
		During 1987:	303.37				

1	2	3	4	5	6	7	8
1988							
77	Parkano–Seinäjoki	50147–76270	81.71	500540	44611, 44612	PLE	18.97 km
				557717	44617, 44618	PRO	13.20 km
				539580	56853, 56854	MTA	49.54 km
34	Haapamäki–Seinäjoki	1027–76270	114.79	500540	44611, 44612	PLE	53.43 km
				557717	44617, 44618	PRO	61.36 km
33	Seinäjoki–Höstvesi	76270–62036	72.65	500540	44611, 44612	PLE	49.66 km
				557975	44617, 44618	PRO	22.99 km
PARA	Parikkala fault line On lines 30.2 and PAR	87008–2431	8.38	500540	44611, 44612	PLE	
SUL	Sulva gravity points Begins from line 32	60002–65370	1.39	500540	44611, 44612	PLE	
F	Ruosniemi–Mäntyluoto tide gauge	51117–761201	(28.30 1))				
	Rejected levelling						54.09 km
				539580	56853, 56854	MTA	2.51 km
				500540	44611, 44612	PLE	
32C	Sorvari–Höstvesi	1799–62036	35.52	500540	44611, 44612	PLE	11.10 km
				557975	44617, 44618	PRO	7.74 km
				557717	44617, 44618	PRO	16.68 km
HA	Höstvesi–Vaasa old tide gauge	62036–1139F	12.93 1)	557975	44617, 44618	PRO	
		During 1988:	318.99				
1989							
38.1	Jyväskylä–Viitasaari	123A–55106	109.75	500540	56853, 56854	PLE	
38.2A, 38.2B	Viitasaari–Seikka	55106–55150	67.79	500540	56853, 56854	PLE	33.34 km
				557975	44617, 44618	PRO	34.45 km
ÄÄN	Äänekoski gravity points Begins from line 38.1	55216–65367	5.01	500540	56853, 56854	PLE	
VAAC	Vaala fault line	Vaala1–Vaala6	16.51	500540	56853, 56854	PLE	
G	Närpiö–Kaskinen tide gauge	89301–89307	17.44 1)	557975	44617, 44618	PRO	
32A, 32B	Närpiö–Sorvari	89301–1799	42.58	557975	44617, 44618	PRO	
31	Noormarkku–Närpiö	52225–89301	120.75	539580	44553, 44554	MTA	
1X	Siuntio short cut	2196–2201	11.89	539580	44553, 44554	MTA	
		During 1989:	375.21				
1990							
35.1	Seinäjoki–Lapua	76270–1154	32.39	500540	56853, 56854	PLE	
35.2	Lapua–Pännäinen	1154–1196	74.46	500540	56853, 56854	PLE	27.90 km
				557975	44617, 44618	PRO	46.56 km
36	Pännäinen–Ylivieska	1196–1261	112.31	500540	56853, 56854	PLE	49.20 km
				557975	44617, 44618	PRO	63.11 km
I	Pännäinen–Pietarsaari tide gauge	1196–1196G	14.61 1)	500540	56853, 56854	PLE	
SAA	Saari fault line On line 44A	54110–54105	8	500540	56853, 56854	PLE	
37C	Raudaskylä–Ylivieska	47144–1261	18.59	557975	44617, 44618	PRO	
KOR	Koria fault line	90002–90009	14.69	557975	44617, 44618	PRO	
38.2C	Seikka–Haapajärvi Rejected levelling	55150–55138	-24.25	539580	44553, 44554	MTA	
37A, 37B	Haapajärvi–Raudaskylä	55138–47144	46.09	539580	44553, 44554	MTA	
39C	Niemiskylä–Parkkima Rejected levelling	46026–47114	-31.66	539580	44553, 44554	MTA	
39D	Parkkima–Haapajärvi Rejected levelling	47114–55138	-32.51	539580	44553, 44554	MTA	
		During 1990:	313.14				

1	2	3	4	5	6	7	8
1991							
40	Toivala–Iisalmi	62077–46008	77.13	500540	56853, 56854	PLE	40.36 km
				558133	56853, 56854	PLE	16.98 km
				557975	57121, 57122	PRO	19.79 km
45A, 45B, 45C	Iisalmi–Kontiomäki	46008–48117	113.57	558133	56853, 56854	PLE	85.90 km
				557975	57121, 57122	PRO	27.67 km
37A, 37B	Haapajärvi–Raudaskylä	55138–47144	46.09				
	Double levelling compare to year 1990			558133	56853, 56854	PLE	10.29 km
				557975	57121, 57122	PRO	35.80 km
KOI	Koitsanlahti fault line On line 30.1	66012–52150	16.59	558133	56853, 56854	PLE	
LAH	Lahti fault line On line 9.1	62033–356	1.64	558133	56853, 56854	PLE	
PUT	Putikko fault line On line 29.2C	52148–78009	6.73	558133	56853, 56854	PLE	
SAV	Savonlinna fault line On lines 29.1B, 29.1C and 29.2A	61001–179	7.35	558133	56853, 56854	PLE	
39A, 39B	Iisalmi–Niemiskylä	46008–46026	41.02	557975	57121, 57122	PRO	
38.2C	Seikka–Haapajärvi Re–levelling	55150–55138	24.25	557975	57121, 57122	PRO	
NIIA	Niinimaa fault line On line 34	1074–1081	14.13	557975	57121, 57122	PRO	
URJ	Urjala fault line On line 6	184–36021	14.67	557975	57121, 57122	PRO	
		During 1991:	255.97				
1992							
46.1	Joensuu–Lieksa	54304–92107	105.13	558133	56853, 56854	PLE	44.58 km
				557717	44617, 44618	PLE	1.59 km
				500540	44617, 44618	VSA	46.30 km
				557717	44617, 44618	VSA	12.66 km
47	Ylivieska–Tuomioja	1261–1291	65.56	558133	56853, 56854	PLE	
PARB	Parikkala fault line On lines 30.2 and PAR	87008–2431	8.63	558133	56853, 56854	PLE	
46.2	Lieksa–Kontiomäki	92107–48117	170.98	557975	57121, 57122	PRO	135.70 km
				500540	44617, 44618	VSA	35.28 km
49.2B2	Kivesjärvi–Kontiomäki	92343–48117	-37.08				
	Rejected levelling			557975	57121, 57122	PRO	15.01 km
				500540	44617, 44618	VSA	22.07 km
KAU	Kaunislahti fault line On line 1.3	2207–92	9.82	557975	57121, 57122	PRO	
		During 1992:	341.67				
1993							
48	Tuomioja–Kempele	1291–93254	52.58	558133	56853, 56854	PLE	
49.1	Kempele–Vaala	93254–1964	93.19	558133	56853, 56854	PLE	25.57 km
				557975	57121, 57122	PRO	67.62 km
JA	Tuomioja–Raahe old tide gauge	1291–92409	51.05 1)	558133	56853, 56854	PLE	50.31 km
				557975	57121, 57122	PRO	51.79 km
NIIB	Niinimaa fault line On line 34	1074–1081	14.13	558133	56853, 56854	PLE	
LAI	Laitila fault line On line 18.2	1660–1666	11.55	557975	57121, 57122	PRO	
MYN	Mynämäki fault line On line 18.2	1654–1655	1.78	557975	57121, 57122	PRO	
49.2A	Vaala–Liminpuro	1964–1948	24.3	500540	44617, 44618	VSA	
49.2B1	Liminpuro–Kivesjärvi Rejected levelling	1948–92343	-16.02	500540	44617, 44618	VSA	
52.1A	Kontiomäki–Laaja	48117–93127	65.08	500540	44617, 44618	VSA	
PER	Perniö fault line	89001–277	3.5	500540	44617, 44618	VSA	On line 5
TUR	Turku fault line On line 18.1	80135–1635	10.19	500540	44617, 44618	VSA	
		During 1993:	286.2				

1	2	3	4	5	6	7	8
1994							
78	Lieksa–Ämmänsaari	92107–49038	248.87	558133	56853, 56854	PLE	101.86 km
				557717	57121, 57122	PRO	45.08 km
				500540	44553, 44554	VSA	101.93 km
39D	Parkkima–Haapajärvi	47114–55138	32.51	558133	56853, 56854	PLE	
50	Kempele–Oulu Re–levelling	93254–92406	11.41	558133	56853, 56854	PLE	
K	Oulu–Oulu tide gauge	92406–KP116	4.80 1)	558133	56853, 56854	PLE	
52.1B	Laaja–Ämmänsaari	93127–49038	18.65	557975	57121, 57122	PRO	9.17 km
				557717			9.48 km
52.2	Ämmänsaari–Hallasenaho	49038–49057	49.23	557717	57121, 57122	PRO	
52.3A	Hallasenaho–Pisto	49057–50015	30.23	557717	57121, 57122	PRO	21.032 km
				500540	44553, 44554	VSA	9.196 km
		During 1994:	395.7				
1995							
51	Oulu–Kuusamo	92406–95225	254.1	558133	56853, 56854	PLE	136.53 km
				557975	57121, 57122	PRO	112.13 km
				500540	44553, 44554	VSA	5.44 km
58A	Kuusamo–Maaninkavaara	95225–95234	79.28	558133	56853, 56854	PLE	36.10 km
				557975	57121, 57122	PRO	10.60 km
				500540	44553, 44554	VSA	32.58 km
JB	Raahe old tide gauge–Raahe tide gauge	92409–95403	4.46 1)	558133	56853, 56854	PLE	
MAS	Masala–Finnish Geodetic Institute	62001–95010	1.15 1)	557975	57121, 57122	PLE	1.15 km
						PRO	1.15 km
52.3B	Pisto–Kuusamo	50015–95225	93.85	557975	57121, 57122	PRO	10.84 km
				500540	44553, 44554	VSA	83.01 km
39C	Niemiskylä–Parkkima Re–levelling	46026–47114	31.66	500540	44553, 44554	VSA	
		During 1995:	464.5				
1996							
53	Oulu–Kemi	92406–1383	102	558133	9404, 9405	PLE	
54	Kemi–Laurila	1383–3133A	11.9	558133	9404, 9405	PLE	
55	Laurila–Rovaniemi	3133A–HT1916	108.8	558133	9404, 9405	PLE	30.45 km
				500540	56853, 56854	VSA	78.35 km
59	Laurila–Tornio	3133A–96129	17.76	558133	9404, 9405	PLE	
45X	Kajaani loop	91224–91225	3.77	558133	9404, 9405	PLE	
56	Rovaniemi–Kemijärvi	HT1916–96301	85.77	557975	57121, 57122	PRO	54.11 km
				500540	56853, 56854	VSA	31.66 km
57	Kemijärvi–Joutsijärvi	96301–50212	25.12	557975	57121, 57122	PRO	
58B	Maaninkavaara–Joutsijärvi	95234–50212	44.1	557975	57121, 57122	PRO	
L	Kemi–Kemi tide gauge	1383–92405	9.81 1)	557975	57121, 57122	PRO	
		During 1996:	409.03				
1997							
79	Lapua–Viitasaari	1154–55106	165.59	558133	9404, 9405	PLE	108.20 km
				557717	9404, 9405	PLE	33.77 km
				557975	57121, 57122	PRO	23.62 km
62A, 62B	Aavasaksa–Raanujärvi	97325–97148	65.01	558133	9404, 9405	PLE	3.29 km
				557975	57121, 57122	PRO	59.36 km
				539580	56853, 56854	VSA	2.36 km
63	Rovaniemi–Sinettä	HT1916–97139	23.16	558133	9404, 9405	PLE	3.95 km
				539580	56853, 56854	VSA	19.21 km
M	Tornio–Haaparanta	96129–97209	3.47	558133	9404, 9405	PLE	+ in Sweden 1.28 km
N	Pekanpää–Vuennonkoski	97317–53212	4.62	558133	9404, 9405	PLE	+ in Sweden 0.28 km
U	Aavasaksa	97325–3959	1.3	558133	9404, 9405	PLE	In Sweden 5.74 km
				557975	57121, 57122	PRO	1.30 km
60	Tornio–Pekanpää	96129–97317	54.31	557975	57121, 57122	PRO	
61	Pekanpää–Aavasaksa	97317–97325	26.22	557975	57121, 57122	PRO	
80	Haapajärvi–Vaala	55138–1964	150.42	500540	56853, 56854	VSA	116.18 km
				539580	56853, 56854	VSA	34.24 km
		During 1997:	494.1				

1	2	3	4	5	6	7	8
1998							
62C	Raanujärvi–Sinettä	97148–97139	40.37	558133	9404, 9405	PLE	
68.1	Sinettä–Lohiniva	97139–75208	76.99	558133	9404, 9405	PLE	
68.2	Lohiniva–Kittilä	75208–98114	59.18	558133	9404, 9405	PLE	14.77 km
				500540	8617, 8618	VSA	44.41 km
66A	Sirkka–Pöntsö	98229–55327	24.23	558133	9404, 9405	PLE	18.92 km
				557975	8619, 8620	PRO	2.88 km
				500540	8617, 8618	VSA	2.43 km
67	Kittilä–Sirkka	98114–98229	23.99	557975	8619, 8620	PRO	9.81 km
				500540	8617, 8618	VSA	14.18 km
69	Sodankylä–Kittilä	IV16–98114	96.1	557975	8619, 8620	PRO	70.61 km
				500540	8617, 8618	VSA	25.49 km
70	Kemijärvi–Sodankylä	96301–IV16	117.78	557975	8619, 8620	PRO	73.49 km
				500540	8617, 8618	VSA	44.29 km
		During 1998:	438.64				
1999							
64.1A	Aavasaksa–Lehmivaara	97325–99202	-48.03	558133	9404, 9405	PLE	
	Rejected levelling						
64.1B	Lehmivaara–Pello	99202–99210	8.53	558133	9404, 9405	PLE	
64.2A	Pello–Törmäsniva	99210–60148	62.57	558133	9404, 9405	PLE	
64.2B	Törmäsniva	60148–56210	-0.8	558133	9404, 9405	PLE	
	Rejected levelling						
Q	Törmäsniva	56210–56211	0.01	558133	9404, 9405	PLE	
V	Pello	99210–532201	1.58	558133	9404, 9405	PLE	+ in Sweden
							4.85 km
X	Kolari	60156–60154	2.19	558133	9404, 9405	PLE	+ in Sweden
							9.47 km
Y	Muonio	99107–IV59055	2.52	539580	9404, 9405	PLE	+ in Sweden
							7.67 km
65.2	Kolari–Muonio	60156–99107	-90				
	Rejected levelling			539580	9404, 9405	PLE	2.39 km
				557975	8619, 8620	PRO	39.27 km
				557717	8617, 8618	VSA	44.21 km
				500540	8617, 8618	VSA	4.13 km
R1	Muonio–Palojoensuu	99107–56148	53.48	539580	9404, 9405	PLE	2.73 km
				557975	8619, 8620	PRO	20.77 km
				557717	8617, 8618	VSA	29.98 km
65.1	Törmäsniva–Kolari	56210–60156	-12.44	557975	8619, 8620	PRO	
	Rejected levelling						
R2	Palojoensuu–Karesuvanto	56148–56209	38.06	557975	8619, 8620	PRO	
R4A	Karesuvanto–Järämä	56209–57117	18.42	557975	8619, 8620	PRO	
66B	Pöntsö–Lompolovaara	55327–56117	39.08	500540	8617, 8618	VSA	32.04 km
				557717			7.04 km
66C	Lompolovaara–Muonio	56117–99107	-2.38	500540	8617, 8618	VSA	
	Rejected levelling						
		During 1999:	226.44				
2000							
64.2B	Törmäsniva	60148–56210	0.8	557717	9404, 9405	PLE	
	Re–levelling						
65.2	Kolari–Muonio	60156–99107	90	557717	9404, 9405	PLE	20.16 km
	Re–levelling			557975	9404, 9405	PLE	23.39 km
				558133	8619, 8620	PRO	27.34 km
				558133	8617, 8618	VSA	19.11 km
65.1	Törmäsniva–Kolari	56210–60156	12.44	557717	9404, 9405	PLE	
	Re–levelling						
82	Kolari–Lohiniva	60156–75208	80.54	558133	9404, 9405	PLE	45.62 km
				557975	9404, 9405	PLE	29.81 km
				557717	8617, 8618	VSA	5.11 km
64.1A	Aavasaksa–Lehmivaara	97325–99202	48.03				
	Re–levelling			557717	8619, 8620	PRO	21.09 km
				557975	8617, 8618	VSA	26.94 km
66C	Lompolovaara–Muonio	56117–99107	2.38	558133	8619, 8620	PRO	
	Re–levelling						

1	2	3	4	5	6	7	8
R4B	Järämä–Kilpisjärvi	57117–56201	102.27	558133	8619, 8620	PRO	26.59 km
				557717	8619, 8620	PRO	36.35 km + in Norway 0.22 km
				557975	8617, 8618	VSA	34.69 km
				557717	8617, 8618	VSA	4.64 km
HB	Vaasa old tide gauge–Vaasa tide gauge	1139F–00003	2.38 1)	557975	57121, 57122	PRO	
R3	Karesuvanto	56209–93310	0.05	557975	8617, 8618	VSA	+ in Sweden 4.90 km
				557717	8617, 8618	VSA	In Sweden 2.56 km
KUT	Kuttanen fault line On line R2	IV5817–57107	12.68	557717	8617, 8618	VSA	
		During 2000:	338.89				
2001							
72	Ivalo–Inari	01205–01215	45.01	320243	13926, 14092	PLE	
71	Sirkka–Inari	98229–01215	189.64	320243	13926, 14092	PLE	50.35 km
				320244	14087, 14090	PRO	125.76 km
				320015	13987, 13988	VSA	13.53 km
73	Sodankylä–Ivalo	IV16–01205	165.18	320243	13926, 14092	PLE	42.17 km
				320015	13987, 14092	VSA	123.01 km
		During 2001:	399.83				
2002							
F	Ruosniemi–Mäntyluoto tide gauge Re–levelling	51117–761201	28.30 1)	320243	13926, 14092	PLE	
T	Ivalo–Virtaniemi	01205–02208	55.32	320243	13926, 14092	PLE	+ in Russia 0.07 km
ZB	Kelloselkä	02218–02209	7.28	320243	13926, 14092	PLE	+ in Russia 0.88 km
S1	Inari–Kaamanen	01215–02122	37.91	320243	13926, 14092	PLE	34.45 km
				320015	13987, 13988	VSA	3.46 km
S3	Kaamanen–Utsjoki	02122–61237	104.62	320243	13926, 14092	PLE	11.59 km
				320244	14087, 14090	PRO	88.37 km
				320015	13987, 13988	VSA	4.66 km
83B	Metsähovi–Ojakkala	SF392–62	24.85	320244	14087, 14090	PLE	9.23 km
						PRO	8.46 km
						VSA	7.16 km
S4	Utsjoki–Nuorgam	61237–662563	46.67	320244	14087, 14090	PRO	+ in Norway 7.56 km
S5	Utsjoki	61237–HT58	0.06	320244	14087, 14090	PRO	+ in Norway 2.31 km
R5	Palojoensuu–Kivilompolo	56148–72224	70.06	320015	13987, 13988	VSA	+ in Norway 1.39 km
S2	Kaamanen–Karigasniemi	02122–56204	65.65	320015	13987, 13988	VSA	
		During 2002:	440.72				
2003							
84	Eurajoki–Ruosniemi	1833–51117	57.95	320243	13926, 14092	PLE	
OLK	Lapijoki–Olkiluoto	51310–03219	14.09 1)	320243	13926, 14092	PLE	17.46 km
				320015			10.72 km
JUN	Hallasenaho–Karttimo	49057–03310	40.31	320244	14087, 14090	PRO	+ in Russia 0.44 km
P1.1A	Mynämäki–Kustavi	51008–03330	49.58	320244	14087, 14090	PRO	
P1.1C	Pikku Pirisholmi	03337–03338	0.4	320244	14087, 14090	PRO	
P1.1E	Pohjametsä–Osnäs	03338–63115	8.28	320244	14087, 14090	PRO	
83A	Kauklahti–Metsähovi	2183–SF392	19.21	320244	14087, 14090	PRO	11.48 km
						VSA	7.73 km

1	2	3	4	5	6	7	8
13	Simola–Vainikkala	80130–03102	13.65	320244	14087, 14090	PRO	In Russia 0.06 km
				320015	13987, 13988	VSA	13.65 km
14.2	Vaalimaa	38042–03103	2.17	320244	14087, 14090	PRO	In Russia 0.10 km
				320015	13987, 13988	VSA	2.17 km
PAR	Parikkala–Kolmikanta	52150–03101	7.71	320244	14087, 14090	PRO	In Russia 0.58 km
				320015	13987, 13988	VSA	7.71 km
ZA	Joutsijärvi–Kelloselkä	50212–02218	58.84	320015	13987, 13988	VSA	
		During 2003:	272.19				
2004							
P1.2	Vårdö–Gölby	04225–62123	33.88	320243	13987, 14092	PLE	33.48 km
	0.40 km, double levelling			320243	8617, 8618	PLE,	
				320244		PRO	
	0.40 km, triple levelling			320015			
P2	Gölby–Eckerö	62123–04216	32.2	320243	13987, 14092	PLE	
P3	Gölby–Svinö	62123–04221	31.65	320243	13987, 14092	PLE	
P1.1B	Kustavi–	03330–	0.46	320243	8617, 8618	PLE,	Two observers
	Pikku Pirisholmi	03337		320244		PRO	Double levelling
	Water crossing			320015			Triple levelling
P1.1D	Pikku Pirisholmi–	03338–	0.29	320243	8617, 8618	PLE,	Two observers
	Pohjametsä	03339		320244		PRO	Double levelling
	Water crossing			320015			Triple levelling
49.2B	Liminpuro–Kontiomäki	1948–48117	59.64	320244	14087, 14090	PRO	
	Re–levelling						
ORA	Savonlinna–	67012–	40.95	320015	13926, 13988	VSA	
	Oravi water-level recorder	04116	199.07				
		During 2004:	199.07				
2005							
O	Tohmajärvi–Niirala	86205–05215	21.42	320243	13926, 14092	PLE	+ in Russia 0.54 km
INA	Inari			320243	13926, 14092	PLE	In Russia 0.02 km
		During 2005:	21.42				
2006							
INA	Lieksa–Inari	92107–05216	60.68	320243	13926, 14092	PLE	52.69 km
				320244	14087, 14090	PRO	7.99 km
		During 2006:	60.68				
	In total III Levelling:		9157.44				

Appendix B

Rod calibrations

Rod calibrations performed during the Third Levelling. Information includes year, date, rod correction and temperature expansion coefficient. A description of the columns

- Year, rods. Column 1.
- Date , rod correction (μm/m) at 20°C. Columns 2-8.
- Temperature expansion coefficient (μm/m)/°C. Column 9.

1	2	3	4	5	6	7	8	9
1978	6.7.	14.11.						
44611/44612	12.0	16.1						1.15
1979	26.4.	27.6.	8.8.	10.10.	22.10.			
5395/5396	-3.4	11.8	11.6		11.5			0.20
44553/44554	-9.6	7.6	10.9		15.3			1.20
44611/44612	-2.5	11.1	30.3	35.4				1.15
1980	26.4.	14.6.	1.8.	22.1.-81				
5395/5396	12.3	8.4						0.20
44553/44554	13.8	-1.4	11.6	5.8				1.20
44611/44612	41.0	12.7	21.5	41.8				1.15
44617/44618	28.8	31.6	34.7	31.6				1.20
1981	7.5.	24.6.	6.8.	10.11.				
44553/44554	5.6	14.7	9.6	-5.6				1.20
44611/44612	25.6	25.7	18.0	43.4				1.15
44617/44618	30.3	17.5						1.20
1982	28.4.	24.6.	3.8.	14.10.				
44553/44554	2.8	3.5	11.2	5.8				1.20
44611/44612	24.3	21.1	21.7	24.4				1.15

1	2	3	4	5	6	7	8	9
1983	15.4.	22.6.	8.8.	13.10.				
44553/44554	0.3	3.9	13.8	7.6				1.20
44611/44612	1.8	27.4	24.0	25.5				1.15
1984	26.4.	25.6.	25.9.	12.10.				
44553/44554			7.9	6.4				1.20
44617/44618	28.6	26.0						1.20
1985	8.5.	24.6.	8.8.	7.10.				
44553/44554			20.2	12.9				1.20
44611/44612	41.2	21.1	32.1	21.5				1.15
1986	18.6.	1.8.	16.10.	6.11.				
44553/44554	7.2	15.3	14.4					1.20
44611/44612		26.5		29.1				1.15
1987	29.4.	20.6.	4.8.	2.11.				
44553/44554	13.4	6.3	13.1	6.2				1.20
44611/44612	30.0	24.6	30.6	23.1				1.15
44617/44618			6.6	4.9				1.20
1988	24.2.	26.4.	7.7.	12.8.	20.10.			
44611/44612	17.5		19.9	33.8	10.1			1.15
44617/44618		-8.8	28.0	16.2	10.6			1.20
56853/56854		6.4	6.0	51.0	50.4			1.22
1989	26.4.	2.5.	5.7.	8.8.	3.10.	19.10.	27.10.	
44553/44554		9.0	4.6	14.1	-1.5			1.20
44617/44618	10.0		15.6	14.2		7.8		1.20
56853/56854		58.7	52.9	55.6			63.0	1.22
1990	26.4.	27.6.	6.8.	1.11.				
44553/44554	19.8	3.2	15.3	13.6				1.20
44617/44618	12.4	14.6	29.2	13.8				1.20
56853/56854	52.9	41.2	59.3	44.4				1.22
1991	7.5.	24.6.	2.8.	4.11.				
56853/56854	41.5	49.4	42.3	62.5				1.22
57121/57122	35.7	34.8	33.9	36.1				1.00
1992	6.5.	25.6.	6.8.	16.10.				
44617/44618	26.1	18.7	37.3	25.5				1.20
56853/56854	27.0	24.2	42.1	47.5				1.22
57121/57122	32.2	31.6	41.8	28.5				1.00

1	2	3	4	5	6	7	8	9
1993	12.5.	29.6.	4.8.	7.10.				
44617/44618	23.8	-1.5	20.3	12.0				1.20
56853/56854	34.6	27.8	45.8	52.4				1.22
57121/57122	30.8	18.4	27.5	28.1				1.00
1994	10.5.	29.6.	3.8.	4.11.	15.11.			
44553/44554	8.7	18.9	19.9		-10.9			1.20
56853/56854	40.5	21.5	43.2	9.6				1.22
57121/57122	20.7	26.8	26.3	0.4				1.00
1995	20.4.	2.11.						
44553/44554	12.5	-27.0						1.20
56853/56854	-14.7	24.2						1.22
57121/57122	14.4	9.8						1.00
1996	6.5.	2.7.	31.7.	25.10.				
9404/9405	-1.2	-0.6	-0.2	0				0.70
56853/56854	-13.4	12.0	9.6	5.8				1.25
57121/57122	8.7	12.2	8.5	15.3				1.15
1997	14.5.	1.8.	6.8.	29.10.				
9404/9405			1.1	-1.5				0.70
56853/56854	-7.8	-2.7		-2.9				1.25
57121/57122	6.1	9.6		-1.0				1.15
1998	18.5.	24.7.	10.10.					
8617/8618	-11.9	-11.0	-8.1					0.68
8619/8620	-12.0	-11.5	-8.3					0.73
9404/9405	5.2	5.0	3.6					0.74
1999	20.5.	30.7.	30.9.					
8617/8618	-11.8	-11.7	-11.6					0.69
8619/8620	-11.7	-12.3	-8.0					0.72
9404/9405	3.5	4.2	3.0					0.68
2000	29.5.	20.10.						
8617/8618	-12.1	-9.3						0.72
8619/8620	-9.9	-10.0						0.63
9404/9405	4.4	3.7						0.71
57121/57122	5.9	6.3						0.76

1	2	3	4	5	6	7	8	9
2001	30.5.	15.11.						
13926/14092	-5.3	-7.5						0.75
13987/13988	-8.5	-11.4						0.79
14087/14090	-6.5	-8.3						0.75
2002	11.5.	31.10.						
13926/14092	-2.8	-3.8						0.86
13987/13988	-5.8	-6.6						0.83
14087/14090	-1.4	-5.1						0.77
2003	12.5.	13.11.						
13926/14092	-3.7	-1.2						0.74
13987/13988	-6.7	-6.0						0.79
14087/14090	-3.2	-3.3						0.70
2004	10.5.	10.11.						
13926/13988	-4.8	-5.2						0.82
13987/14092	-3.6	-4.7						0.76
14087/14090	-3.8	-3.7						0.70
2005	22.8.	14.11.						
13926/14092	-2.4	-4.5						0.79
2006	22.8.	19.10.						
13926/14092	-2.0	-5.0						0.80
14087/14090	-2.6	-5.1						0.72

Appendix C

Observations

Observations and adjustment results are presented in the precise levelling network, at the crustal fault lines, and at the lines for the tide gauges and the GPS stations.

The columns are

1. bench mark
2. Support (K= Bedrock, S=Bridge, M= Boulder, P=Foundation....)
3. Distance between bench marks (km)
4. Sum of corrections: Rod metre (mm), refraction (mm), temporal tidal (mm), and magnetic correction (mm, only with Zeiss Ni 002)
5. Difference between back and fore measurements (mm).
6. Tidal system difference relative to NAP: From the zero tidal system to the mean tidal system (mgpu).
7. Corrected height difference (mm, zero tidal system, in observation epoch). The corrected height difference is the original measurement plus corrections (4), and the correction for the permanent tidal system from the mean tidal to zero tidal system.
8. Gravity in bench mark (minus $980 \cdot 10^{-2}$ ms^{-2})
9. Corrected height difference (mgpu, zero tidal system, in observation epoch)
10. Land uplift rate (mgpu/year, NKG2005LU model)
11. Correction: Land uplift (mgpu)
12. Correction: Adjustment (mgpu)
13. Adjustment result: Observation in epoch 2000.0 (mgpu, zero tidal system)
14. Adjusted geopotential number of the bench mark in the adjustment epoch 2000.0.

1	2	3	4	5	6	7	8	9	10	11	12	13	14
						1.1 PASILA-KAUKLAHTI 1979.75							
35007	K				36.52		1.9039		2.303				20545.81
		1.230	0.03	0.18		-81.95		-80.47		0.31	-0.13	-80.29	
78016	K				36.56		1.9060		2.318				20465.52
		2.283	0.18	-0.05		-718.71		-705.71		0.55	-0.24	-705.40	
73002	K				36.61		1.9110		2.345				19760.12
		1.644	0.01	0.68		916.48		899.90		0.26	-0.18	899.98	
79209	K				36.61		1.9120		2.358				20660.11
		2.228	-0.69	2.06		-14542.86		-14279.82		0.17	-0.24	-14279.89	
64007	K				36.59		1.9129		2.366				6380.22
		1.911	0.15	1.21		12538.38		12311.58		0.25	-0.20	12311.63	
2178	K				36.59		1.9098		2.378				18691.85
		1.926	0.61	-0.01		7185.44		7055.46		0.19	-0.21	7055.44	
61057	K				36.58		1.9112		2.388				25747.29
		0.736	0.04	0.15		3406.64		3345.01		0.03	-0.08	3344.96	
62405	K				36.57		1.9105		2.389				29092.26
		0.922	0.01	-0.62		-5623.96		-5522.23		0.09	-0.10	-5522.24	
35011	K				36.56		1.9116		2.394				23570.02
		2.740	-0.09	-0.09		-6509.38		-6391.64		0.24	-0.29	-6391.69	
2181	K				36.54		1.9123		2.406				17178.32
		2.054	-0.15	-1.39		-7054.17		-6926.58		0.22	-0.22	-6926.58	
56002	K				36.53		1.9150		2.417				10251.74
		2.635	-0.10	0.06		-3725.35		-3657.98		0.03	-0.28	-3658.23	
2183	K				36.49		1.9160		2.418				6593.52
		20.309	0.00	2.18		-14209.42		-13952.46		2.34	-2.17	-13952.29	
						1.2 KAUKLAHTI-MASALA 1979.74							
2183	K				36.49		1.9160		2.418				6593.52
		1.916	0.10	1.06		2949.02		2895.68		0.01	-0.64	2895.05	
35013	K				36.44		1.9129		2.419				9488.57
		1.818	-0.11	-0.71		-3411.29		-3349.59		0.07	-0.18	-3349.70	
2185A	P				36.41		1.9122		2.422				6138.86
		1.310	0.01	0.06		2204.26		2164.39		-0.13	-0.13	2164.13	
VR004	K				36.37		1.9109		2.416				8302.99
		1.858	0.18	-0.37		3620.97		3555.46		-0.24	-0.19	3555.03	
62001	K				36.31		1.9082		2.404				11858.02
		6.902	0.18	0.04		5362.96		5265.95		-0.29	-1.14	5264.52	
						1.3 MASALA-KARJAA 1979.47							
62001	K				36.31		1.9082		2.404				11858.02
		2.076	-0.01	0.45		28.73		28.21		-0.21	-0.21	27.79	
62002	K				36.24		1.9069		2.394				11885.81
		1.847	-0.06	0.09		-1539.86		-1512.00		-0.05	-0.19	-1512.24	
56003A	K				36.20		1.9047		2.391				10373.56
		2.000	-0.08	1.77		-1935.46		-1900.43		-0.07	-0.20	-1900.70	
35014	K				36.15		1.9041		2.388				8472.87
		1.568	0.01	0.27		2468.07		2423.41		0.27	-0.16	2423.52	
65023	K				36.15		1.9051		2.401				10896.39
		0.047	-0.01	-0.12		-3039.50		-2984.50		0.01	0.00	-2984.49	
2190	K				36.16		1.9058		2.402				7911.89
		2.809	0.17	2.42		3432.73		3370.62		0.38	-0.29	3370.71	
2191	K				36.14		1.9070		2.420				11282.61
		1.982	0.59	-0.89		14891.80		14622.34		0.06	-0.20	14622.20	
2192	K				36.11		1.9046		2.423				25904.80
		1.972	-0.40	-1.42		-14837.79		-14569.34		0.33	-0.20	-14569.21	
2193	K				36.11		1.9102		2.439				11335.60
		2.071	0.39	0.48		4149.40		4074.35		0.51	-0.21	4074.65	
2194	M				36.16		1.9132		2.464				15410.25
		1.948	-0.35	-0.43		-6554.81		-6436.27		0.48	-0.20	-6435.99	
2195	K				36.20		1.9174		2.487				8974.26

1	2	3	4	5	6	7	8	9	10	11	12	13	14
2195	K				36.20		1.9174		2.487				8974.26
		2.250	-0.06	-0.82		1801.54		1768.97		0.55	-0.23	1769.29	
2196	K				36.25		1.9222		2.514				10743.55
		2.132	0.16	1.70		8402.14		8250.25		0.30	-0.38	8250.17	
79101	R				36.24		1.9232		2.528				18993.72
		1.122	0.32	-0.04		6758.61		6636.45		0.12	-0.20	6636.37	
2197	R				36.23		1.9254		2.534				25630.09
		2.476	0.58	-0.59		18352.27		18020.54		0.16	-0.44	18020.26	
2198	K				36.19		1.9235		2.542				43650.35
		1.873	-0.54	-0.42		-11007.08		-10808.11		0.00	-0.24	-10808.35	
2199	K				36.15		1.9223		2.542				32842.00
		2.272	0.23	0.36		-2156.90		-2117.90		0.00	-0.29	-2118.19	
2200	K				36.10		1.9209		2.542				30723.82
		1.740	0.13	-1.55		600.43		589.58		0.14	-0.22	589.50	
2201	K				36.08		1.9201		2.549				31313.32
		1.940	-0.78	-2.22		-13134.02		-12896.59		0.17	-0.20	-12896.62	
2202	K				36.05		1.9231		2.557				18416.71
		2.028	0.21	-1.98		5282.28		5186.77		-0.16	-0.21	5186.40	
2203	K				35.99		1.9182		2.549				23603.12
		1.903	0.28	-1.00		8594.26		8438.85		0.03	-0.19	8438.69	
62403	K				35.95		1.9157		2.551				32041.80
		2.179	-0.72	-0.78		-16819.38		-16515.22		0.04	-0.22	-16515.40	
35017	K				35.90		1.9170		2.553				15526.40
		1.895	-0.05	1.37		1936.30		1901.29		0.34	-0.19	1901.44	
2206	K				35.91		1.9166		2.569				17427.84
		1.974	0.00	0.44		2745.91		2696.25		0.42	-0.20	2696.47	
2207	K				35.93		1.9163		2.589				20124.32
		1.552	0.22	0.14		87.48		85.90		0.28	0.18	86.36	
2208	K				35.93		1.9164		2.603				20210.67
		1.867	0.32	-0.54		9614.14		9440.28		0.35	0.06	9440.69	
2209	K				35.94		1.9145		2.620				29651.37
		2.075	-0.07	1.09		5630.24		5528.42		0.45	0.07	5528.94	
35018	K				35.96		1.9136		2.642				35180.30
		1.973	-0.03	-1.24		-8457.06		-8304.11		0.49	2.18	-8301.44	
2211	K				35.99		1.9157		2.666				26878.86
		1.898	0.57	-0.41		10113.67		9930.76		0.26	-2.30	9928.72	
79102	K				35.98		1.9123		2.679				36807.59
		0.359	0.02	0.13		5056.44		4964.98		0.06	-0.43	4964.61	
92	K				35.99		1.9115		2.682				41772.19
		53.828	1.04	-3.74		30464.59		29913.77		5.71	-5.31	29914.17	

1.3 X SIUNTION LENKKI (SHORTCUT ROUTE) 1989.78

2196	K				36.25		1.9222		2.514				10743.55
		1.310	-0.01	0.44		2000.46		1964.29		0.10	0.10	1964.49	
8932	P				36.25		1.9221		2.523				12708.04
		1.158	-0.01	-0.08		10524.91		10334.65		0.06	0.09	10334.80	
89123	S				36.24		1.9226		2.529				23042.84
		1.880	0.06	0.87		10744.34		10550.12		0.10	0.14	10550.36	
89124	K				36.22		1.9242		2.540				33593.20
		0.568	0.00	-0.13		6592.59		6473.42		0.02	0.04	6473.48	
8933	K				36.21		1.9237		2.541				40066.69
		0.840	0.04	0.34		3649.56		3583.59		0.01	0.06	3583.66	
2198	K				36.19		1.9235		2.542				43650.35
		0.138	0.00	-0.10		-1423.68		-1397.94		0.01	0.00	-1397.93	
8934	K				36.20		1.9238		2.542				42252.41
		0.375	0.01	0.27		1213.58		1191.64		0.00	0.01	1191.65	
8935	K				36.19		1.9233		2.543				43444.06
		0.578	0.03	0.95		-2639.11		-2591.40		-0.01	0.01	-2591.40	
8936	K				36.17		1.9225		2.541				40852.67
		0.374	0.05	0.81		-2288.94		-2247.56		0.00	0.01	-2247.55	
8937	K				36.17		1.9219		2.542				38605.11
		0.598	0.10	-0.25		-3210.14		-3152.11		0.01	0.01	-3152.09	
89125	K				36.15		1.9218		2.543				35453.03
		0.872	0.18	0.62		-8456.71		-8303.83		-0.03	0.02	-8303.84	
8938	K				36.13		1.9227		2.540				27149.18
		0.982	0.14	-0.34		-834.63		-819.55		0.01	0.02	-819.52	
8939	K				36.11		1.9221		2.541				26329.67

1	2	3	4	5	6	7	8	9	10	11	12	13	14
8939	K				36.11		1.9221		2.541				26329.67
		0.480	-0.04	0.06		4636.19		4552.37		0.01	0.01	4552.39	
89126	K				36.10		1.9208		2.542				30882.06
		0.324	0.00	0.66		-569.96		-559.66		0.01	0.01	-559.64	
8940	K				36.09		1.9208		2.543				30322.42
		0.788	-0.02	-0.15		1157.60		1136.67		0.02	0.02	1136.71	
8941	K				36.08		1.9201		2.545				31459.13
		0.621	0.01	-0.16		-148.56		-145.87		0.04	0.02	-145.81	
2201	K				36.08		1.9201		2.549				31313.32
		11.886	0.54	3.81		20947.49		20568.82		0.36	0.57	20569.75	

2.1 HYVINKÄÄ-OJAKKALA 1979.74

127	K				38.41		1.9370		2.895				112846.17
		1.430	-0.27	0.16		-1978.51		-1942.77		-0.28	0.09	-1942.96	
41	P				38.37		1.9319		2.882				110903.19
		2.818	-0.86	-0.56		-17000.08		-16692.91		-0.21	0.17	-16692.95	
36057	M				38.29		1.9308		2.871				94210.24
		1.540	-0.46	0.37		-12632.73		-12404.46		-0.23	0.09	-12404.60	
43	S				38.24		1.9300		2.860				81805.64
		1.641	0.13	-0.34		6854.81		6730.94		-0.35	0.10	6730.69	
44	M				38.17		1.9300		2.843				88536.34
		1.213	-0.18	0.73		-1712.72		-1681.77		-0.27	0.07	-1681.97	
57038	K				38.13		1.9343		2.829				86854.36
		1.737	-0.14	0.49		955.69		938.42		-0.10	0.10	938.42	
57039	M				38.08		1.9354		2.824				87792.79
		1.606	-0.07	-0.57		-134.14		-131.72		-0.20	0.10	-131.82	
57040	K				38.03		1.9371		2.815				87660.96
		1.738	-0.01	-0.27		3315.86		3255.96		-0.40	0.10	3255.66	
47	P				37.96		1.9374		2.795				90916.63
		1.938	-0.59	1.05		-10580.15		-10389.07		-0.15	0.12	-10389.10	
36056	R				37.91		1.9416		2.787				80527.52
		1.936	-0.03	-0.05		4451.10		4370.73		-0.06	0.12	4370.79	
36055	M				37.86		1.9442		2.784				84898.31
		1.850	0.23	-0.06		6236.77		6124.17		-0.11	0.11	6124.17	
36054	R				37.81		1.9446		2.779				91022.48
		1.486	-0.07	0.17		256.48		251.85		0.01	0.09	251.95	
51	K				37.78		1.9452		2.779				91274.43
		2.237	-0.26	0.90		-10289.26		-10103.51		0.29	0.13	-10103.09	
36053	M				37.78		1.9472		2.793				81171.34
		1.281	-0.21	0.29		-4382.21		-4303.10		0.08	0.08	-4302.94	
53	P				37.76		1.9480		2.797				76868.40
		1.157	-0.20	-1.25		-4832.81		-4745.57		0.02	0.07	-4745.48	
36052	S				37.74		1.9499		2.798				72122.92
		1.642	-0.05	0.55		-3100.60		-3044.65		0.06	0.10	-3044.49	
36051	S				37.71		1.9510		2.801				69078.43
		2.240	-0.13	-0.30		-2125.13		-2086.77		-0.40	0.13	-2087.04	
36050	S				37.63		1.9517		2.781				66991.40
		2.086	-0.06	-1.11		8776.76		8618.35		-0.40	0.12	8618.07	
57	M				37.55		1.9506		2.761				75609.47
		1.958	0.15	0.84		5843.83		5738.36		0.08	0.12	5738.56	
36049	M				37.52		1.9505		2.765				81348.03
		1.851	0.06	-1.96		-7277.02		-7145.68		-0.26	0.11	-7145.83	
59	K				37.46		1.9505		2.752				74202.20
		2.113	-0.02	0.99		558.06		547.99		-0.46	0.13	547.66	
79108	K				37.38		1.9470		2.730				74749.86
		2.338	-0.29	0.03		-9583.01		-9410.02		0.15	0.14	-9409.73	
61	K				37.36		1.9483		2.737				65340.13
		1.469	-0.03	-0.56		397.92		390.73		-0.23	0.09	390.59	
62	K				37.31		1.9461		2.726				65730.71
		41.305	-3.36	-0.46		-47981.08		-47114.49		-3.42	2.48	-47115.43	

1	2	3	4	5	6	7	8	9	10	11	12	13	14
						2.2 OJAKKALA-KARJAA 1979.75							
62	K				37.31		1.9461		2.726				65730.71
		2.304	-0.10	-0.09		-6890.35		-6765.95		-0.09	-1.20	-6767.24	
36048	P				37.25		1.9471		2.722				58963.47
		2.056	-0.18	1.17		-8337.05		-8186.55		0.09	0.11	-8186.35	
36047	R				37.22		1.9487		2.726				50777.13
		1.776	0.08	-1.53		3359.54		3298.90		-0.09	0.10	3298.91	
65	R				37.17		1.9476		2.722				54076.03
		2.138	-0.07	-0.61		5318.59		5222.57		-0.09	0.12	5222.60	
57041	R				37.11		1.9446		2.717				59298.63
		1.604	-0.13	0.21		-1476.48		-1449.82		-0.15	0.09	-1449.88	
68	R				37.06		1.9442		2.710				57848.75
		1.412	0.43	0.12		12598.00		12370.52		0.10	0.08	12370.70	
79107	K				37.04		1.9414		2.715				70219.44
		0.858	-0.14	-1.09		-3973.39		-3901.65		0.09	0.05	-3901.51	
36046	M				37.04		1.9424		2.719				66317.93
		2.065	-0.07	-0.54		2198.51		2158.82		0.06	0.11	2158.99	
79106	M				37.00		1.9429		2.722				68476.92
		1.946	0.79	1.90		17491.32		17175.44		-0.12	0.11	17175.43	
36045	K				36.94		1.9391		2.716				85652.35
		2.017	0.08	-0.03		767.60		753.74		0.07	0.11	753.92	
36044	M				36.90		1.9378		2.720				86406.27
		1.797	-0.36	0.28		-12535.32		-12308.92		0.01	0.10	-12308.81	
73	M				36.86		1.9395		2.720				74097.46
		2.676	-0.46	-1.05		-12692.29		-12463.08		0.01	0.15	-12462.92	
35037	K				36.80		1.9421		2.721				61634.53
		0.952	-0.08	0.93		-1623.04		-1593.73		0.00	0.05	-1593.68	
35035	M				36.78		1.9410		2.721				60040.85
		2.551	-0.03	-0.16		-3687.51		-3620.92		-0.22	0.14	-3621.00	
76B	M				36.70		1.9393		2.710				56419.85
		1.375	0.10	-0.15		8023.64		7878.72		-0.09	0.07	7878.70	
35034	M				36.66		1.9355		2.706				64298.56
		1.716	-0.34	-0.40		-8949.06		-8787.40		-0.12	0.09	-8787.43	
77	R				36.61		1.9347		2.699				55511.13
		2.739	-0.17	1.20		-8127.41		-7980.58		-0.07	0.15	-7980.50	
35033	M				36.54		1.9337		2.696				47530.64
		1.419	0.24	-0.22		5990.61		5882.37		-0.15	0.08	5882.30	
35032	M				36.49		1.9307		2.688				53412.93
		1.830	-0.45	-0.71		-13129.20		-12891.97		-0.14	0.10	-12892.01	
80	R				36.43		1.9305		2.682				40520.92
		1.905	0.40	-0.91		7978.71		7834.53		-0.01	0.10	7834.62	
35031	K				36.38		1.9271		2.681				48355.54
		1.253	0.02	0.51		3147.37		3090.49		-0.02	0.07	3090.54	
83	R				36.35		1.9257		2.680				51446.08
		1.682	0.08	-1.06		11797.00		11583.77		0.12	0.09	11583.98	
84	K				36.33		1.9253		2.686				63030.06
		2.428	0.13	-1.00		923.08		906.39		-0.04	0.13	906.48	
35030	K				36.26		1.9188		2.684				63936.55
		1.558	0.14	-0.73		1564.95		1536.65		0.02	0.08	1536.75	
79105	K				36.23		1.9162		2.685				65473.29
		2.179	-0.27	0.97		-9343.90		-9174.93		0.15	0.12	-9174.66	
79104	M				36.19		1.9173		2.692				56298.64
		1.989	0.18	0.94		4618.98		4535.45		-0.10	0.11	4535.46	
89	M				36.14		1.9135		2.687				60834.09
		2.154	-0.31	1.30		-9287.41		-9119.43		0.00	0.12	-9119.31	
90	M				36.08		1.9133		2.687				51714.78
		1.388	-0.11	1.49		-789.92		-775.63		-0.05	0.08	-775.60	
36043	K				36.05		1.9108		2.685				50939.17
		0.008	0.00	0.74		281.86		276.76		0.00	0.00	276.76	
79103	K				36.05		1.9108		2.685				51215.93
		2.195	-0.24	0.99		-9617.76		-9443.79		-0.07	0.12	-9443.74	
92	K				35.99		1.9115		2.682				41772.19
		53.970	-0.84	2.47		-24400.33		-23959.24		-0.90	1.63	-23958.51	

1	2	3	4	5	6	7	8	9	10	11	12	13	14
						3 A OULUNKYLÄ-KERAVA 1978.41							
68031	K				36.65		1.9054		2.319				18863.54
		0.709	0.01	-0.23		-8879.57		-8718.90		0.05	0.09	-8718.76	
13B	S				36.67		1.9064		2.321				10144.78
		0.134	0.08	0.30		868.66		852.94		0.07	0.02	853.03	
AP0600	P				36.69		1.9077		2.324				10997.81
		1.270	0.40	-0.87		8485.42		8331.90		0.02	0.17	8332.09	
73015	K				36.71		1.9080		2.325				19329.90
		0.055	0.01	-0.01		942.89		925.83		-0.01	0.01	925.83	
68033	M				36.71		1.9078		2.325				20255.73
		2.471	0.14	0.70		418.33		410.76		0.19	0.33	411.28	
69012	K				36.78		1.9115		2.334				20667.01
		1.474	0.05	0.87		-3203.47		-3145.52		0.28	0.20	-3145.04	
78102	P				36.84		1.9103		2.347				17521.96
		0.394	0.07	0.00		469.33		460.84		0.07	0.05	460.96	
16A	P				36.85		1.9103		2.350				17982.92
		1.312	0.12	0.24		-586.47		-575.86		0.23	0.17	-575.46	
AP1000	P				36.90		1.9094		2.361				17407.47
		1.466	0.50	-0.41		6840.56		6716.81		0.32	0.19	6717.32	
AP1300	P				36.96		1.9091		2.375				24124.79
		0.012	0.00	-0.03		35.79		35.14		0.00	0.00	35.14	
78104	S				36.96		1.9091		2.376				24159.93
		0.963	-0.01	0.53		-3017.67		-2963.07		0.21	0.13	-2962.73	
19A	R				36.99		1.9094		2.385				21197.21
		1.590	0.29	-0.45		5276.45		5180.99		0.31	0.21	5181.51	
AP15	P				37.06		1.9099		2.400				26378.71
		1.556	0.15	0.15		2979.77		2925.87		0.30	0.21	2926.38	
AP1700	P				37.12		1.9114		2.413				29305.10
		2.020	0.43	0.70		8459.46		8306.44		0.43	0.27	8307.14	
AP1900	P				37.19		1.9113		2.433				37612.24
		1.066	-0.08	0.74		-5641.49		-5539.45		0.10	0.14	-5539.21	
68002	R				37.22		1.9129		2.438				32073.03
		1.816	0.33	-0.35		4425.65		4345.61		0.34	0.24	4346.19	
23	K				37.29		1.9146		2.454				36419.22
		1.908	0.22	0.25		2669.76		2621.48		0.27	0.25	2622.00	
AP2200	P				37.34		1.9155		2.466				39041.22
		0.950	0.23	-0.50		4050.59		3977.33		0.33	0.13	3977.79	
58023	K				37.40		1.9162		2.481				43019.02
		1.366	0.24	-0.39		1138.09		1117.51		0.31	0.18	1118.00	
62004	K				37.45		1.9184		2.495				44137.01
		22.532	3.18	1.24		25732.08		25266.67		3.82	2.99	25273.48	
						3 B KERAVA 1978.47							
62004	K				37.45		1.9184		2.495				44137.01
		0.038	0.02	-0.16		776.76		762.71		0.00	0.01	762.72	
78120	K				37.45		1.9183		2.495				44899.73
		1.512	0.17	1.15		-2292.92		-2251.47		0.33	0.20	-2250.94	
78107	K				37.50		1.9199		2.511				42648.79
		1.550	0.19	0.99		-1516.16		-1488.76		0.33	0.21	-1488.22	
						3 C KERAVA-HYVINKÄÄ 1979.70							
78107	K				37.50		1.9199		2.511				42648.79
		0.875	0.06	0.23		-1220.24		-1198.17		0.22	0.12	-1197.83	
36001	R				37.53		1.9208		2.522				41450.95
		1.518	0.41	-0.65		6029.06		5920.06		0.38	0.20	5920.64	
58024	K				37.59		1.9225		2.540				47371.58
		2.319	0.14	0.97		867.40		851.72		0.56	0.31	852.59	
70007	K				37.67		1.9230		2.568				48224.18
		2.089	0.30	0.27		5796.46		5691.69		0.59	0.28	5692.56	
69007	K				37.74		1.9245		2.597				53916.73
		0.028	0.00	-0.09		83.33		81.83		0.00	0.00	81.83	
79210	K				37.74		1.9245		2.597				53998.56

1	2	3	4	5	6	7	8	9	10	11	12	13	14
79210	K				37.74		1.9245		2.597				53998.56
		2.156	0.45	-0.54		8614.70		8458.99		0.58	0.29	8459.86	
69008	K				37.80		1.9268		2.626				62458.42
		2.012	0.18	1.44		5740.44		5636.69		0.54	0.27	5637.50	
69009	K				37.87		1.9278		2.653				68095.92
		2.956	0.30	0.55		4145.60		4070.69		0.62	0.39	4071.70	
32A	M				37.94		1.9284		2.683				72167.62
		2.074	-0.20	-0.02		-4906.49		-4817.83		0.57	0.28	-4816.98	
79208	S				38.00		1.9311		2.712				67350.63
		2.094	0.38	0.56		4207.29		4131.27		0.58	0.28	4132.13	
65014	S				38.05		1.9315		2.740				71482.77
		1.775	0.84	-0.63		10637.13		10444.92		0.49	0.24	10445.65	
69026	K				38.10		1.9298		2.764				81928.42
		2.020	0.29	0.91		3425.15		3363.26		0.54	0.27	3364.07	
64009	K				38.17		1.9312		2.791				85292.49
		2.114	0.33	0.56		2712.66		2663.64		0.57	0.28	2664.49	
68019	K				38.24		1.9299		2.819				87956.98
		1.986	0.25	0.76		6372.86		6257.69		0.55	0.26	6258.50	
38A	S				38.30		1.9267		2.846				94215.48
		1.909	1.05	1.72		11379.91		11174.25		0.51	0.25	11175.01	
39A	M				38.36		1.9294		2.872				105390.49
		1.752	0.38	-0.53		7592.13		7454.96		0.48	0.23	7455.67	
127	K				38.41		1.9370		2.895				112846.17
		29.677	5.16	5.51		71477.39		70185.66		7.78	3.95	70197.39	

4 PASILA-OULUNKYLÄ 1978.37

35007	K				36.52		1.9039		2.303				20545.81
		1.211	0.05	-0.61		1337.00		1312.80		0.11	0.13	1313.04	
68032	K				36.55		1.9041		2.308				21858.85
		0.882	0.05	-0.08		3480.16		3417.18		0.13	0.09	3417.40	
78101	K				36.58		1.9037		2.314				25276.26
		1.109	0.14	-0.35		1634.60		1605.02		0.04	0.12	1605.18	
68009	K				36.61		1.9042		2.316				26881.44
		1.539	-0.12	-0.46		-8165.89		-8018.13		0.07	0.16	-8017.90	
68031	K				36.65		1.9054		2.319				18863.54
		4.741	0.12	-1.50		-1714.13		-1683.13		0.35	0.50	-1682.28	

5 A KARJAA-PERNIÖ 1980.67

92	K				35.99		1.9115		2.682				41772.19
		2.737	-1.46	-2.76		-15334.53		-15057.15		0.10	-0.11	-15057.16	
93	M				35.94		1.9113		2.687				26715.04
		1.527	0.01	-0.85		560.30		550.17		0.19	1.90	552.26	
35020	K				35.93		1.9123		2.696				27267.30
		1.750	0.42	0.12		2556.30		2510.06		0.35	-0.08	2510.33	
260	K				35.96		1.9125		2.715				29777.63
		2.394	-2.28	0.88		-20834.37		-20457.58		0.59	-0.11	-20457.10	
36039	K				36.04		1.9181		2.745				9320.52
		2.605	0.41	0.62		474.57		465.99		0.48	-0.12	466.35	
262	K				36.05		1.9181		2.770				9786.87
		1.872	-0.55	-1.86		-5076.64		-4984.85		0.42	-0.09	-4984.52	
263	K				36.07		1.9199		2.792				4802.36
		2.166	0.31	-1.20		5429.19		5331.02		0.54	-0.10	5331.46	
264	R				36.11		1.9189		2.820				10133.82
		2.736	1.54	0.23		29831.36		29291.94		0.60	-0.13	29292.41	
265	M				36.14		1.9156		2.851				39426.22
		2.126	0.81	-2.59		10237.69		10052.56		0.51	-0.10	10052.97	
266	K				36.17		1.9170		2.877				49479.19
		1.746	-0.52	0.41		-6435.91		-6319.54		0.45	-0.08	-6319.17	
36040	K				36.21		1.9213		2.900				43160.02
		1.558	-0.02	-1.34		-1959.33		-1923.91		0.42	-0.07	-1923.56	
36041	K				36.25		1.9230		2.922				41236.45
		2.214	0.03	-0.07		-650.59		-638.83		0.51	-0.10	-638.42	
36042	K				36.27		1.9219		2.948				40598.04

1	2	3	4	5	6	7	8	9	10	11	12	13	14
36042	K				36.27		1.9219		2.948				40598.04
		2.189	-0.26	1.06		-5809.42		-5704.40		0.48	-0.10	-5704.02	
270	K				36.30		1.9234		2.973				34894.01
		1.157	-0.25	-1.28		-5037.91		-4946.85		0.33	-0.05	-4946.57	
37001	K				36.33		1.9248		2.990				29947.44
		1.364	-0.28	0.76		-4665.07		-4580.75		0.33	-0.06	-4580.48	
271	K				36.37		1.9275		3.007				25366.95
		1.062	0.07	-0.52		2604.02		2556.96		0.16	-0.05	2557.07	
37002	K				36.41		1.9283		3.015				27924.02
		1.466	1.32	-0.04		8289.68		8139.86		0.38	-0.07	8140.17	
37003	K				36.46		1.9250		3.035				36064.20
		2.146	-1.52	0.36		-15619.51		-15337.17		0.50	-0.10	-15336.77	
273	K				36.49		1.9226		3.061				20727.42
		1.766	-0.80	1.64		-6806.72		-6683.67		0.48	-0.08	-6683.27	
37004	R				36.54		1.9235		3.086				14044.15
		1.242	0.66	0.15		12370.59		12146.96		0.33	-0.06	12147.23	
37005	K				36.57		1.9209		3.103				26191.38
		2.140	1.20	1.74		8244.20		8095.15		0.54	-0.10	8095.59	
275	K				36.64		1.9209		3.131				34286.97
		39.963	-1.16	-4.54		-7632.08		-7494.02		8.69	0.14	-7485.19	

5 B PERNIÖ-TURKU 1980.75

275	K				36.64		1.9209		3.131				34286.97
		1.373	-0.22	-1.09		-1734.88		-1703.52		0.36	-0.06	-1703.22	
276	K				36.69		1.9234		3.149				32583.75
		2.100	-1.99	-0.48		-15367.75		-15089.99		0.53	-0.79	-15090.25	
277	K				36.73		1.9278		3.177				17493.50
		1.877	-0.27	-0.60		-9294.65		-9126.69		0.43	-0.09	-9126.35	
278	S				36.81		1.9304		3.200				8367.15
		2.548	-0.03	-2.11		-152.46		-149.71		0.66	-0.12	-149.17	
37006	M				36.90		1.9348		3.234				8217.97
		2.392	0.40	-0.61		8493.51		8340.08		0.58	-0.11	8340.55	
280	K				36.99		1.9359		3.264				16558.52
		1.848	1.75	1.62		16347.69		16052.36		0.45	-0.09	16052.72	
37007	K				37.06		1.9340		3.288				32611.24
		2.054	0.31	-0.61		3793.91		3725.37		0.30	-0.10	3725.57	
282	K				37.13		1.9350		3.303				36336.83
		1.818	-0.22	1.48		-3568.30		-3503.84		0.00	-0.09	-3503.93	
283	K				37.18		1.9368		3.304				32832.90
		2.305	-1.15	-0.58		-25313.36		-24856.20		0.55	-0.11	-24855.76	
56005	K				37.26		1.9434		3.332				7977.14
		2.004	-0.12	0.13		-2830.41		-2779.30		0.38	-0.09	-2779.01	
285	K				37.33		1.9437		3.352				5198.13
		0.797	0.29	0.68		6597.12		6477.99		0.22	-0.04	6478.17	
37008	K				37.35		1.9428		3.364				11676.30
		1.972	0.14	1.09		4340.57		4262.18		0.44	-0.09	4262.53	
286	S				37.37		1.9411		3.387				15938.84
		0.818	0.36	1.24		7943.59		7800.13		0.14	-0.04	7800.23	
37009	K				37.36		1.9403		3.394				23739.07
		2.161	1.16	1.24		5426.05		5328.07		0.48	-0.10	5328.45	
37010	K				37.39		1.9383		3.419				29067.51
		2.580	0.66	1.34		4584.49		4501.68		0.67	-0.12	4502.23	
288	K				37.46		1.9355		3.454				33569.73
		2.162	-0.48	2.11		-10651.88		-10459.47		0.29	-0.10	-10459.28	
289	S				37.45		1.9365		3.468				23110.45
		2.452	0.70	1.39		12199.71		11979.34		0.39	-0.12	11979.61	
290	K				37.45		1.9352		3.489				35090.07
		2.280	-0.73	-1.73		-7330.77		-7198.34		0.35	-0.11	-7198.10	
63038	S				37.45		1.9355		3.507				27891.97
		1.274	0.15	0.53		1544.80		1516.89		0.27	-0.06	1517.10	
37011	S				37.46		1.9338		3.521				29409.06
		2.232	0.13	-0.51		2664.76		2616.61		0.51	-0.11	2617.01	
292	S				37.48		1.9318		3.547				32026.08
		1.108	0.16	-0.26		3127.07		3070.56		0.25	-0.05	3070.76	
37012	K				37.50		1.9308		3.560				35096.83

1	2	3	4	5	6	7	8	9	10	11	12	13	14
37012	K				37.50		1.9308		3.560				35096.83
		2.356	-0.46	0.27		-12027.80		-11810.46		0.56	-0.11	-11810.01	
293	S				37.53		1.9300		3.589				23286.83
		1.924	1.19	-0.37		9875.68		9697.21		0.41	-0.09	9697.53	
294	M				37.56		1.9271		3.610				32984.35
		1.102	-0.05	-0.01		-3276.52		-3217.31		0.28	-0.05	-3217.08	
295	K				37.59		1.9276		3.625				29767.28
		2.542	-0.79	0.12		-18476.07		-18142.21		0.60	-0.12	-18141.73	
296	S				37.64		1.9318		3.656				11625.55
		1.402	0.81	-0.07		9984.51		9804.12		0.27	-0.07	9804.32	
37013	K				37.65		1.9351		3.671				21429.87
		1.286	0.11	-0.76		4354.99		4276.31		0.22	-0.06	4276.47	
37014	R				37.65		1.9354		3.682				25706.34
		2.396	-0.24	1.76		-882.46		-866.51		0.00	-0.11	-866.62	
80131	K				37.60		1.9367		3.682				24839.71
		2.278	-0.05	0.16		332.69		326.68		0.07	-0.11	326.64	
37016	M				37.55		1.9382		3.685				25166.36
		1.992	-1.43	0.49		-17725.81		-17405.67		-0.04	-0.09	-17405.80	
299	S				37.50		1.9406		3.683				7760.56
		2.144	0.73	-0.64		2589.61		2542.85		0.21	-0.10	2542.96	
300	K				37.48		1.9433		3.694				10303.51
		1.346	0.19	0.20		6081.81		5971.99		0.29	-0.06	5972.22	
37017	K				37.50		1.9440		3.709				16275.73
		1.182	0.28	-0.46		5232.45		5137.97		0.30	-0.06	5138.21	
VR9	K				37.53		1.9434		3.725				21413.94
		0.714	0.16	-0.03		1659.02		1629.07		0.19	-0.03	1629.23	
VR8	K				37.55		1.9435		3.735				23043.17
		0.414	0.20	0.15		3540.36		3476.43		0.10	-0.02	3476.51	
VR7	K				37.56		1.9430		3.740				26519.68
		0.314	-0.01	-0.22		-2340.96		-2298.69		0.05	-0.01	-2298.65	
301	K				37.57		1.9436		3.743				24221.03
		1.314	0.08	-0.34		10111.41		9928.83		0.17	-0.06	9928.94	
VR5	K				37.57		1.9422		3.752				34149.97
		0.524	-0.01	0.11		-781.48		-767.37		0.09	-0.02	-767.30	
VR4	K				37.58		1.9432		3.756				33382.66
		1.012	0.00	-0.06		-2842.87		-2791.54		0.18	-0.05	-2791.41	
302	K				37.58		1.9446		3.766				30591.26
		0.438	0.06	0.04		2120.88		2082.58		0.07	-0.02	2082.63	
VR3	K				37.58		1.9441		3.769				32673.89
		0.962	-0.09	0.50		-121.42		-119.24		0.06	-0.05	-119.23	
37018	K				37.57		1.9438		3.772				32554.67
		0.836	-0.18	0.35		-3925.72		-3854.84		0.08	-0.04	-3854.80	
56006	K				37.56		1.9439		3.776				28699.87
		1.182	-0.18	0.44		-3069.24		-3013.83		0.10	-0.06	-3013.79	
VR2	K				37.54		1.9444		3.781				25686.09
		0.876	-0.21	-0.48		-2339.38		-2297.14		0.16	-0.04	-2297.02	
80132	K				37.55		1.9447		3.789				23389.06
		1.192	-0.08	-0.09		-3103.17		-3047.14		0.26	-0.06	-3046.94	
VR1	K				37.57		1.9449		3.803				20342.12
		1.470	0.12	-0.03		2229.50		2189.25		0.39	-0.07	2189.57	
80133	K				37.61		1.9444		3.823				22531.69
		0.166	-0.04	0.34		-1242.59		-1220.16		0.05	-0.01	-1220.12	
80134	K				37.62		1.9446		3.826				21311.59
		0.924	-0.34	0.02		-9463.30		-9292.45		0.22	-0.04	-9292.27	
2138T	K				37.64		1.9461		3.838				12019.31
		1.158	0.05	0.07		-377.90		-371.07		0.14	-0.05	-370.98	
37029	K				37.67		1.9466		3.845				11648.32
		2.482	0.33	0.06		6062.87		5953.41		0.34	-1.56	5952.19	
254	K				37.75		1.9480		3.863				17600.51
		78.083	1.15	5.79		-17002.09		-16694.71		14.07	-5.81	-16686.45	

6 A TOIJALA-MATKU 1980.70

184	K				40.56		1.9677		3.967				101959.38
		2.160	-0.14	-0.45		7049.84		6922.71		0.05	-0.48	6922.28	
36015	M				40.52		1.9659		3.970				108881.66

1	2	3	4	5	6	7	8	9	10	11	12	13	14
36015	M				40.52		1.9659		3.970				108881.66
		1.496	-0.21	0.44		-2713.96		-2665.02		0.00	-0.33	-2665.35	
80212	K				40.49		1.9670		3.970				106216.31
		0.480	-0.06	0.15		-2739.19		-2689.79		0.00	0.12	-2689.67	
36016	M				40.47		1.9675		3.970				103526.65
		1.861	-0.14	0.64		-3169.10		-3111.96		0.11	0.47	-3111.38	
36017	P				40.44		1.9679		3.976				100415.27
		2.070	-0.16	-1.07		-3816.30		-3747.49		-0.18	0.52	-3747.15	
65003	R				40.38		1.9690		3.967				96668.11
		2.196	-0.17	1.30		-2093.74		-2055.98		-0.21	0.55	-2055.64	
65004	R				40.31		1.9679		3.956				94612.48
		1.116	0.42	0.26		8296.46		8146.85		-0.13	0.28	8147.00	
190	K				40.27		1.9661		3.949				102759.47
		0.402	0.18	0.04		2018.39		1981.99		-0.05	0.03	1981.97	
68021	P				40.25		1.9647		3.947				104741.46
		1.352	0.02	-0.71		4287.39		4210.06		-0.18	0.11	4209.99	
36020	K				40.21		1.9623		3.937				108951.44
		1.502	-0.35	-0.11		15276.81		15001.21		-0.25	-0.30	15000.66	
36021	K				40.15		1.9560		3.924				123952.11
		1.299	-0.08	-0.13		-5538.65		-5438.71		-0.23	0.02	-5438.92	
65005	K				40.10		1.9543		3.913				118513.20
		1.661	0.29	-0.64		5051.86		4960.69		0.00	0.03	4960.72	
65006	K				40.06		1.9502		3.912				123473.91
		1.475	0.01	0.42		-495.32		-486.38		-0.13	0.02	-486.49	
65007	K				40.02		1.9492		3.905				122987.42
		1.258	-0.19	0.17		10147.01		9963.86		-0.26	0.02	9963.62	
197	K				39.97		1.9515		3.892				132951.04
		1.785	-0.01	-0.08		-12339.82		-12117.08		-0.29	0.03	-12117.34	
80213	M				39.90		1.9484		3.877				120833.70
		2.084	0.16	0.75		-9034.58		-8871.48		-0.09	0.03	-8871.54	
36023	M				39.84		1.9452		3.872				111962.16
		1.272	0.02	0.22		-1941.93		-1906.87		0.06	0.02	-1906.79	
200	P				39.82		1.9431		3.875				110055.37
		0.700	0.04	0.21		645.25		633.60		0.01	0.01	633.62	
201	K				39.80		1.9426		3.876				110688.99
		26.169	-0.37	1.41		8890.42		8730.22		-1.77	1.15	8729.60	

6 B MATKU-LIETO 1980.74

201	K				39.80		1.9426		3.876				110688.99
		1.839	0.30	1.10		575.11		564.72		0.16	0.03	564.91	
65015	K				39.78		1.9416		3.884				111253.89
		2.287	0.10	0.35		-6115.58		-6005.14		0.08	0.04	-6005.02	
36025	M				39.73		1.9420		3.888				105248.87
		1.760	-0.07	-0.87		1473.13		1446.53		-0.02	0.03	1446.54	
204	M				39.69		1.9425		3.887				106695.40
		2.214	-0.14	-0.59		-864.39		-848.78		0.06	0.04	-848.68	
36026	M				39.64		1.9448		3.890				105846.72
		0.721	0.03	0.01		1361.11		1336.53		0.11	0.01	1336.65	
68020	P				39.64		1.9436		3.896				107183.37
		1.699	-0.87	-0.32		-9973.29		-9793.21		0.21	0.03	-9792.97	
207	M				39.62		1.9437		3.907				97390.41
		2.654	-0.06	0.26		1200.34		1178.67		-0.28	0.04	1178.43	
36028	K				39.54		1.9456		3.893				98568.83
		1.059	0.51	-0.90		7818.61		7677.44		-0.09	0.02	7677.37	
209	M				39.50		1.9439		3.888				106246.21
		1.787	-0.34	-0.88		-6278.75		-6165.39		0.32	0.03	-6165.04	
210	M				39.50		1.9448		3.904				100081.17
		1.138	-0.23	-0.46		-4408.49		-4328.89		0.07	0.02	-4328.80	
36029	M				39.48		1.9455		3.908				95752.36
		2.838	-0.23	1.05		-1469.66		-1443.13		0.31	0.05	-1442.77	
213	M				39.45		1.9463		3.924				94309.59
		1.918	-0.26	0.27		-3937.29		-3866.21		0.45	0.03	-3865.73	
214	M				39.47		1.9469		3.947				90443.86
		2.551	0.84	0.10		507.98		498.81		0.16	0.04	499.01	
215	K				39.43		1.9483		3.955				90942.86

1	2	3	4	5	6	7	8	9	10	11	12	13	14
215	K				39.43		1.9483		3.955				90942.86
		1.162	-0.57	0.36		798.46		784.04		0.05	0.02	784.11	
63037	K				39.40		1.9479		3.958				91726.98
		2.442	-0.05	-1.09		-8092.41		-7946.33		0.05	0.04	-7946.24	
217	M				39.35		1.9493		3.961				83780.74
		0.773	-0.04	0.12		1190.39		1168.91		-0.06	0.01	1168.86	
218	P				39.33		1.9475		3.957				84949.60
		1.139	-0.24	-0.29		-1386.66		-1361.62		-0.16	0.02	-1361.76	
219	R				39.29		1.9447		3.949				83587.84
		1.922	0.12	-0.22		2651.65		2603.77		-0.20	0.03	2603.60	
36032	R				39.22		1.9414		3.939				86191.45
		2.297	0.07	-1.80		-8679.79		-8523.05		-0.11	0.04	-8523.12	
36033	S				39.16		1.9407		3.933				77668.32
		2.204	-0.10	0.92		3749.74		3682.02		0.10	0.04	3682.16	
36034	M				39.11		1.9368		3.938				81350.48
		1.368	0.06	0.72		-1246.63		-1224.11		0.07	0.02	-1224.02	
80214	R				39.09		1.9337		3.942				80126.45
		2.271	-0.04	0.18		-2408.33		-2364.82		-0.06	0.04	-2364.84	
225	R				39.02		1.9331		3.939				77761.62
		2.486	-0.19	1.66		7776.56		7636.06		-0.08	0.04	7636.02	
227	M				38.96		1.9321		3.935				85397.64
		1.579	0.03	1.21		-1709.79		-1678.90		-0.06	0.03	-1678.93	
36036	M				38.91		1.9354		3.932				83718.70
		1.857	-0.06	0.03		-788.03		-773.79		0.10	0.03	-773.66	
36037	M				38.88		1.9342		3.937				82945.04
		2.072	0.13	-0.69		-4684.89		-4600.25		0.02	0.03	-4600.20	
36038	M				38.83		1.9356		3.938				78344.85
		1.566	-0.02	-0.79		-5025.88		-4935.09		-0.06	0.03	-4935.12	
231	K				38.79		1.9348		3.935				73409.72
		1.678	0.01	0.94		-1280.27		-1257.14		-0.14	0.03	-1257.25	
232	M				38.73		1.9339		3.928				72152.48
		1.516	0.03	0.17		322.96		317.13		0.01	0.02	317.16	
65009	P				38.70		1.9343		3.928				72469.65
		1.038	0.04	0.05		2111.63		2073.49		0.06	0.02	2073.57	
37039	K				38.68		1.9356		3.931				74543.21
		0.020	0.00	0.07		551.70		541.73		0.00	0.00	541.73	
80215	K				38.68		1.9355		3.931				75084.94
		2.161	0.07	0.27		-5642.96		-5541.02		0.04	0.04	-5540.94	
235	M				38.64		1.9371		3.933				69544.00
		1.922	0.08	-0.63		-3589.24		-3524.40		-0.23	0.03	-3524.60	
37038	K				38.57		1.9355		3.921				66019.40
		1.986	-0.21	-1.32		3214.74		3156.67		0.04	0.03	3156.74	
65010	K				38.53		1.9337		3.924				69176.14
		1.958	0.18	0.27		-9638.28		-9464.16		0.07	0.03	-9464.06	
238	K				38.49		1.9363		3.927				59712.09
		1.630	-0.07	-0.32		-12321.44		-12098.89		0.08	0.03	-12098.78	
37037	K				38.47		1.9392		3.932				47613.29
		0.995	0.02	0.77		-160.25		-157.35		0.04	0.02	-157.29	
240	P				38.45		1.9390		3.934				47456.00
		3.430	-0.17	-1.60		132.45		130.06		-0.37	0.06	129.75	
242	M				38.33		1.9369		3.914				47585.74
		1.983	-0.13	0.14		1822.98		1790.04		-0.18	0.03	1789.89	
68034	K				38.27		1.9376		3.905				49375.64
		1.973	-0.07	-0.09		1508.12		1480.89		-0.16	0.03	1480.76	
37035	K				38.21		1.9400		3.897				50856.40
		2.257	0.03	-0.24		-4046.02		-3972.96		0.16	0.04	-3972.76	
245	K				38.18		1.9417		3.905				46883.64
		74.150	-1.51	-2.08		-64980.65		-63807.12		0.56	1.24	-63805.32	

6 C LIETO-TURKU 1980.79

245	K				38.18		1.9417		3.905				46883.64
		2.182	0.11	-0.27		-8066.16		-7920.51		-0.03	0.04	-7920.50	
37034	K				38.12		1.9444		3.903				38963.14
		1.895	-0.06	-0.07		-2017.51		-1981.08		-0.13	0.03	-1981.18	
37033	K				38.07		1.9441		3.896				36981.95

1	2	3	4	5	6	7	8	9	10	11	12	13	14
37033	K				38.07		1.9441		3.896				36981.95
		1.923	-0.09	1.24		-1466.22		-1439.75		-0.06	0.03	-1439.78	
249	K				38.02		1.9443		3.893				35542.17
		2.366	-0.03	-0.26		1546.49		1518.56		0.15	0.04	1518.75	
37032	K				37.98		1.9444		3.901				37060.93
		2.254	-0.01	1.22		81.72		80.25		0.22	0.04	80.51	
251	R				37.96		1.9441		3.912				37141.44
		1.590	-0.14	0.13		1379.61		1354.70		-0.21	0.03	1354.52	
37031	K				37.91		1.9429		3.901				38495.96
		4.150	-1.20	0.27		-19007.15		-18663.98		-0.74	0.07	-18664.65	
80135	K				37.75		1.9475		3.863				19831.30
		0.034	-0.04	-0.28		-2271.80		-2230.79		0.00	0.00	-2230.79	
254	K				37.75		1.9480		3.863				17600.51
		16.394	-1.46	1.98		-29821.02		-29282.60		-0.80	0.28	-29283.12	

7 RIIHIMÄKI-TOIJALA 1980.65

66040	K				38.89		1.9541		3.056				93458.22
		0.018	0.00	-0.03		406.21		398.88		0.00	0.00	398.88	
80207	K				38.89		1.9542		3.056				93857.10
		1.910	-0.52	0.84		-4542.49		-4460.53		0.35	0.06	-4460.12	
36003	M				38.96		1.9560		3.074				89396.98
		1.539	0.24	-1.27		3519.65		3456.14		0.30	0.04	3456.48	
138A	M				39.02		1.9565		3.090				92853.46
		2.006	-0.41	0.61		-5601.39		-5500.33		0.47	0.06	-5499.80	
139	M				39.09		1.9596		3.114				87353.66
		1.214	0.05	0.01		-1718.34		-1687.34		0.28	0.04	-1687.02	
140	S				39.14		1.9594		3.129				85666.62
		1.546	0.14	0.14		3364.36		3303.67		0.35	0.04	3304.06	
141	M				39.20		1.9603		3.146				88970.69
		1.901	-0.07	-0.56		-2541.61		-2495.76		0.45	0.06	-2495.25	
142A	M				39.26		1.9618		3.169				86475.44
		2.591	0.22	-0.10		4200.57		4124.79		0.62	0.08	4125.49	
143A	M				39.34		1.9600		3.201				90600.93
		1.139	0.03	-0.98		-305.73		-300.22		0.27	0.03	-299.92	
36004	S				39.38		1.9603		3.215				90301.01
		2.562	0.19	-0.87		4658.89		4574.85		0.60	0.07	4575.52	
AP0100	P				39.47		1.9598		3.246				94876.54
		1.268	-0.09	0.01		-1609.01		-1579.98		0.30	0.04	-1579.64	
146	M				39.51		1.9596		3.262				93296.89
		1.147	-0.02	-1.09		-4679.97		-4595.54		0.28	0.03	-4595.23	
147A	M				39.55		1.9592		3.276				88701.67
		2.560	0.08	2.04		-5069.96		-4978.49		0.62	0.07	-4977.80	
80208	P				39.63		1.9573		3.308				83723.88
		2.581	0.10	0.61		-852.14		-836.76		0.61	0.07	-836.08	
149	M				39.73		1.9568		3.340				82887.80
		1.133	0.07	-0.63		1011.55		993.29		0.26	0.03	993.58	
36006	M				39.76		1.9558		3.353				83881.38
		2.334	0.17	-0.24		339.25		333.13		0.46	0.07	333.66	
80209	M				39.78		1.9582		3.377				84215.04
		1.711	-0.31	-0.77		-3299.57		-3240.04		0.35	0.05	-3239.64	
152	M				39.80		1.9591		3.395				80975.40
		2.518	0.03	-1.55		2654.81		2606.91		0.63	0.07	2607.61	
57034	K				39.88		1.9580		3.428				83583.00
		1.801	0.00	0.14		-829.61		-814.65		0.46	0.05	-814.14	
154	K				39.94		1.9586		3.451				82768.86
		0.898	0.00	0.85		-1060.02		-1040.90		0.23	0.03	-1040.64	
59051	S				39.97		1.9589		3.463				81728.22
		2.292	0.06	-0.66		-452.94		-444.76		0.59	0.07	-444.10	
158	M				40.03		1.9612		3.494				81284.11
		1.207	0.05	-0.58		5340.62		5244.29		0.28	0.04	5244.61	
159	K				40.05		1.9631		3.508				86528.72
		1.744	-0.26	0.46		-4057.51		-3984.34		0.43	0.05	-3983.86	
62034	R				40.09		1.9733		3.531				82544.86
		3.249	0.25	0.08		9688.02		9513.36		0.85	0.09	9514.30	
161A	M				40.18		1.9705		3.574				92059.16

1	2	3	4	5	6	7	8	9	10	11	12	13	14
161A	M				40.18		1.9705		3.574				92059.16
		0.642	0.19	-0.16		630.87		619.50		0.17	0.02	619.69	
60189	P				40.20		1.9699		3.583				92678.85
		2.094	0.30	0.85		2682.67		2634.29		0.51	0.06	2634.86	
AP0601	P				40.24		1.9678		3.610				95313.71
		0.069	-0.01	-0.02		2818.67		2767.84		0.00	0.00	2767.84	
36009	P				40.24		1.9672		3.610				98081.55
		2.311	-0.32	0.79		-8371.03		-8220.09		0.42	0.07	-8219.60	
70008	K				40.25		1.9708		3.631				89861.95
		2.053	0.11	-1.11		-2595.35		-2548.56		0.33	0.06	-2548.17	
165A	K				40.25		1.9734		3.648				87313.78
		1.997	-0.06	-1.01		530.27		520.71		0.48	0.06	521.25	
36010	K				40.28		1.9736		3.673				87835.03
		2.061	0.40	0.26		5567.14		5466.79		0.55	0.06	5467.40	
167	M				40.32		1.9750		3.701				93302.43
		1.865	0.03	-0.44		-8530.71		-8376.96		0.43	0.05	-8376.48	
53136	M				40.34		1.9784		3.724				84925.96
		1.921	0.12	0.04		12044.08		11827.02		0.50	0.06	11827.58	
53137	M				40.39		1.9772		3.749				96753.54
		1.544	0.17	-0.09		4046.16		3973.24		0.37	0.04	3973.65	
53138	M				40.42		1.9754		3.769				100727.19
		2.427	0.09	0.16		-13420.35		-13178.47		0.61	0.07	-13177.79	
57033	M				40.46		1.9766		3.800				87549.40
		2.426	0.01	-0.57		83.35		81.85		0.54	0.07	82.46	
173	P				40.49		1.9762		3.828				87631.86
		1.610	0.17	-0.72		4679.11		4594.77		0.44	0.05	4595.26	
57032	M				40.53		1.9750		3.851				92227.12
		2.142	-0.11	0.99		2938.30		2885.34		0.60	0.06	2886.00	
57031	M				40.60		1.9746		3.882				95113.12
		2.168	0.03	0.24		2684.63		2636.23		0.58	0.06	2636.87	
53140	M				40.64		1.9747		3.912				97750.01
		1.989	0.10	-0.22		-1675.98		-1645.77		0.53	0.06	-1645.18	
57030	M				40.68		1.9754		3.939				96104.82
		1.703	-0.02	0.47		-597.21		-586.44		0.34	0.05	-586.05	
53142	M				40.69		1.9758		3.956				95518.77
		3.071	-0.44	0.74		-8285.37		-8136.03		0.04	0.09	-8135.90	
80210	M				40.64		1.9754		3.958				87382.87
		2.679	-0.20	-0.03		-379.87		-373.02		0.15	-1.92	-374.79	
183	M				40.60		1.9724		3.966				87008.09
		1.880	0.60	0.22		16791.80		16489.05		0.02	-1.01	16488.06	
80211	K				40.56		1.9673		3.967				103496.14
		0.012	0.02	-0.03		-1564.98		-1536.76		0.00	-0.01	-1536.77	
184	K				40.56		1.9677		3.967				101959.38
		81.533	1.18	-3.18		8639.85		8484.21		17.65	-0.71	8501.15	

8 HYVINKÄÄ-RIIHIMÄKI 1979.77

127	K				38.41		1.9370		2.895				112846.17
		1.479	-0.70	0.27		-8517.62		-8363.78		0.38	0.11	-8363.29	
128	M				38.47		1.9411		2.914				104482.87
		1.481	-0.35	0.74		-8255.10		-8106.03		0.34	0.11	-8105.58	
57037	M				38.52		1.9432		2.931				96377.29
		1.732	-0.04	0.29		-5074.21		-4982.60		0.41	0.13	-4982.06	
57036	M				38.59		1.9469		2.951				91395.23
		2.275	0.12	-1.08		-524.35		-514.88		0.54	0.17	-514.17	
131	K				38.66		1.9493		2.977				90881.06
		1.486	0.24	0.59		2361.66		2319.03		0.38	0.11	2319.52	
60016	M				38.71		1.9465		2.996				93200.57
		0.361	-0.10	-0.22		-3294.91		-3235.43		0.09	0.03	-3235.31	
57035	M				38.72		1.9469		3.001				89965.26
		1.772	0.49	0.50		4855.24		4767.58		0.42	0.13	4768.13	
68001	M				38.78		1.9476		3.022				94733.39
		2.093	-0.16	1.47		-5732.60		-5629.13		0.51	0.15	-5628.47	
134A	R				38.86		1.9524		3.047				89104.92

1	2	3	4	5	6	7	8	9	10	11	12	13	14
134A	R				38.86		1.9524		3.047				89104.92
		0.814	0.25	0.15		4433.12		4353.12		0.17	0.01	4353.30	
66040	K				38.89		1.9541		3.056				93458.22
		13.493	-0.25	2.71		-19748.76		-19392.12		3.24	0.95	-19387.93	

9.1 A RIIHIMÄKI-HERRALA 1979.76

66040	K				38.89		1.9541		3.056				93458.22
		0.814	-0.25	0.15		-4433.12		-4353.11		-0.17	-0.02	-4353.30	
134A	R				38.86		1.9524		3.047				89104.92
		2.434	0.58	-0.73		7489.08		7353.91		-0.28	0.11	7353.74	
307	M				38.87		1.9499		3.033				96458.66
		0.696	-0.09	0.23		-1903.80		-1869.44		-0.12	0.03	-1869.53	
49159	K				38.86		1.9494		3.027				94589.14
		1.006	0.22	0.16		5253.78		5158.95		-0.12	0.04	5158.87	
309	M				38.87		1.9464		3.021				99748.00
		0.509	-0.08	0.48		-3644.20		-3578.41		-0.07	0.02	-3578.46	
46001	M				38.87		1.9470		3.017				96169.55
		1.850	-0.17	-0.13		-712.35		-699.49		-0.21	0.08	-699.62	
311	M				38.88		1.9468		3.007				95469.93
		0.720	0.03	0.69		3673.03		3606.73		-0.01	0.03	3606.75	
53002	K				38.90		1.9445		3.007				99076.67
		1.030	-0.12	-0.62		-4066.34		-3992.92		-0.05	0.05	-3992.92	
313	M				38.92		1.9446		3.004				95083.75
		1.804	-0.04	0.75		-4163.56		-4088.38		-0.11	0.08	-4088.41	
315	K				38.94		1.9426		2.999				90995.34
		1.606	0.03	0.75		3665.17		3598.99		-0.01	0.07	3599.05	
316	M				38.98		1.9420		2.999				94594.40
		0.962	-0.04	0.47		-72.56		-71.25		0.00	0.04	-71.21	
49158	M				39.00		1.9423		2.999				94523.19
		2.046	-0.06	0.64		-162.04		-159.11		0.00	0.09	-159.02	
318	P				39.05		1.9451		2.999				94364.17
		0.977	-0.09	-1.31		-3414.89		-3353.24		0.09	0.04	-3353.11	
319	M				39.08		1.9461		3.003				91011.07
		1.910	-0.02	0.16		-1072.41		-1053.05		0.14	0.08	-1052.83	
61014	M				39.14		1.9460		3.010				89958.24
		0.507	-0.02	-0.05		669.07		656.99		0.04	0.02	657.05	
61013	K				39.16		1.9463		3.012				90615.29
		1.506	0.02	0.28		2169.82		2130.65		0.02	0.07	2130.74	
49157	M				39.20		1.9463		3.013				92746.02
		1.232	-0.24	-0.23		-7202.37		-7072.34		-0.03	0.05	-7072.32	
58026	M				39.23		1.9474		3.012				85673.71
		3.642	0.62	-0.10		13769.46		13520.88		-0.19	0.16	13520.85	
328	K				39.30		1.9466		3.003				99194.56
		1.486	-0.42	-0.98		-9512.85		-9341.12		-0.10	0.07	-9341.15	
53001	M				39.33		1.9488		2.998				89853.40
		2.004	0.28	-0.56		4190.08		4114.45		-0.27	0.09	4114.27	
61051	K				39.34		1.9489		2.984				93967.67
		0.691	-0.01	-1.74		-424.58		-416.92		-0.06	0.03	-416.95	
49156	K				39.35		1.9494		2.981				93550.72
		2.324	-0.29	-0.23		-2408.76		-2365.28		-0.16	0.10	-2365.34	
335	K				39.39		1.9486		2.974				91185.38
		0.910	0.41	-0.03		8462.87		8310.10		-0.09	0.04	8310.05	
62404	K				39.40		1.9483		2.969				99495.43
		1.890	0.16	0.10		2961.74		2908.29		-0.12	0.08	2908.25	
58027	K				39.44		1.9466		2.964				102403.68
		1.755	-0.66	1.24		-6763.83		-6641.72		-0.21	0.08	-6641.85	
49154	K				39.46		1.9448		2.953				95761.82
		1.344	0.08	-0.69		1346.60		1322.29		-0.07	0.06	1322.28	
341	M				39.49		1.9443		2.950				97084.10
		0.710	0.10	-0.19		3101.05		3045.05		-0.02	0.03	3045.06	
49153	M				39.50		1.9434		2.949				100129.17
		1.446	-0.31	-0.54		-4789.13		-4702.65		-0.13	0.06	-4702.72	
343	K				39.52		1.9432		2.942				95426.46
		0.887	-0.15	-0.54		-2053.46		-2016.38		-0.17	0.04	-2016.51	
49152	M				39.52		1.9427		2.934				93409.95

1	2	3	4	5	6	7	8	9	10	11	12	13	14
49152	M				39.52		1.9427		2.934				93409.95
		2.102	0.25	-0.62		3341.99		3281.64		-0.47	0.09	3281.26	
345	K				39.49		1.9411		2.911				96691.21
		2.129	-0.33	0.37		-3191.50		-3133.87		-0.22	0.09	-3134.00	
61053	K				39.52		1.9453		2.900				93557.21
		1.826	-0.44	0.74		-8058.67		-7913.18		0.00	0.08	-7913.10	
349	K				39.57		1.9476		2.900				85644.11
		46.755	-1.05	-2.08		-7956.66		-7812.94		-3.17	1.98	-7814.13	

9.1 B HERRALA-LAHTI 1979.87

349	K				39.57		1.9476		2.900				85644.11
		1.082	-0.10	0.05		-1366.49		-1341.82		0.08	0.05	-1341.69	
63007	R				39.61		1.9489		2.904				84302.42
		2.583	-0.01	0.57		663.37		651.40		0.21	0.11	651.72	
49151	K				39.69		1.9521		2.914				84954.16
		1.616	0.14	-0.82		3319.81		3259.90		0.11	0.07	3260.08	
353	K				39.75		1.9523		2.920				88214.23
		1.188	0.07	-0.16		988.38		970.54		0.07	0.05	970.66	
354	K				39.79		1.9525		2.923				89184.89
		1.221	-0.32	-0.49		-7149.20		-7020.18		0.03	0.05	-7020.10	
62033	K				39.82		1.9537		2.924				82164.80
		1.738	0.18	-1.12		6168.91		6057.58		-0.23	0.17	6057.52	
356	K				39.83		1.9524		2.913				88222.32
		1.054	0.36	0.06		4340.96		4262.61		-0.13	0.05	4262.53	
LKP214	K				39.84		1.9513		2.906				92484.84
		1.835	0.64	-1.19		8978.24		8816.18		-0.04	0.08	8816.22	
358	P				39.88		1.9489		2.904				101301.07
		1.440	0.02	-0.92		1184.36		1162.98		-0.25	0.06	1162.79	
76001	P				39.88		1.9493		2.892				102463.86
		1.072	-0.23	0.20		-5432.36		-5334.30		-0.26	0.05	-5334.51	
AP0101	P				39.87		1.9485		2.879				97129.35
		1.484	0.08	1.38		995.56		977.58		-0.30	0.07	977.35	
364	M				39.86		1.9476		2.864				98106.69
		1.730	0.30	-1.96		6885.20		6760.89		-0.41	0.38	6760.86	
82101	K				39.82		1.9432		2.844				104867.55
		0.012	0.02	-0.73		337.19		331.11		0.00	0.00	331.11	
LKP270	K				39.83		1.9431		2.844				105198.65
		18.055	1.15	-5.13		19913.94		19554.47		-1.12	1.19	19554.54	

9.2 A LAHTI-VILLÄHDE 1979.64

LKP270	K				39.83		1.9431		2.844				105198.65
		0.758	-0.04	0.21		639.75		628.20		-0.15	0.01	628.06	
269	M				39.82		1.9427		2.836				105826.71
		0.610	-0.03	-0.88		-1000.44		-982.38		-0.14	0.01	-982.51	
37048	R				39.81		1.9422		2.829				104844.20
		0.705	-0.15	-1.11		-2062.31		-2025.07		-0.18	0.01	-2025.24	
268	M				39.79		1.9419		2.821				102818.97
		0.512	-0.05	-1.26		-1306.54		-1282.95		-0.12	0.01	-1283.06	
LKP266	M				39.79		1.9417		2.815				101535.90
		0.510	-0.10	0.35		506.96		497.80		-0.13	0.01	497.68	
37049	M				39.78		1.9407		2.809				102033.57
		1.513	0.17	-0.49		1727.65		1696.45		-0.37	0.02	1696.10	
367	K				39.76		1.9379		2.790				103729.67
		4.608	-0.20	-3.18		-1494.93		-1467.95		-1.09	0.07	-1468.97	

9.2 B VILLÄHDE-KAUSALA 1979.46

367	K				39.76		1.9379		2.790				103729.67
		1.502	0.13	-0.23		-3569.89		-3505.41		-0.30	0.02	-3505.69	
369	P				39.75		1.9367		2.776				100223.99
		2.008	0.04	-0.91		1506.87		1479.65		-0.39	0.03	1479.29	
37050	M				39.75		1.9354		2.757				101703.28

1	2	3	4	5	6	7	8	9	10	11	12	13	14
37050	M				39.75		1.9354		2.757				101703.28
		2.022	0.24	-1.00		-3214.53		-3156.46		-0.44	0.03	-3156.87	
37051	K				39.74		1.9341		2.736				98546.41
		1.750	0.55	-0.95		11622.88		11412.87		-0.43	0.02	11412.46	
373	P				39.71		1.9295		2.715				109958.88
		1.562	0.15	0.27		6568.79		6450.09		-0.40	0.02	6449.71	
374	M				39.68		1.9289		2.695				116408.59
		1.166	0.11	-0.08		2473.47		2428.77		-0.25	0.02	2428.54	
375	K				39.68		1.9282		2.683				118837.12
		1.284	-0.04	1.08		-1283.38		-1260.18		-0.29	0.02	-1260.45	
64098	M				39.67		1.9269		2.669				117576.66
		0.136	0.09	-0.26		2274.47		2233.36		0.01	0.00	2233.37	
74008	M				39.67		1.9265		2.670				119810.03
		1.340	-0.20	-1.26		-4075.95		-4002.28		-0.26	0.02	-4002.52	
64099	M				39.67		1.9248		2.657				115807.51
		0.824	0.17	0.19		1359.10		1334.54		-0.15	0.01	1334.40	
378	M				39.67		1.9240		2.650				117141.91
		2.176	-0.03	-0.18		-2292.96		-2251.51		-0.39	0.03	-2251.87	
37052	M				39.68		1.9227		2.631				114890.04
		1.940	-0.35	-0.50		-3390.80		-3329.49		-0.45	0.03	-3329.91	
37053	M				39.66		1.9192		2.609				111560.13
		2.154	-0.09	0.88		-4802.50		-4715.66		-0.49	0.03	-4716.12	
37054	M				39.64		1.9197		2.585				106844.01
		1.522	0.00	0.19		-1425.75		-1399.97		-0.38	0.02	-1400.33	
AP0200	P				39.62		1.9196		2.566				105443.68
		0.922	-0.01	0.01		-1445.63		-1419.49		-0.17	0.01	-1419.65	
37055	M				39.62		1.9199		2.558				104024.03
		2.417	0.00	1.61		-3717.70		-3650.48		-0.58	0.03	-3651.03	
63050	K				39.58		1.9201		2.530				100373.00
		0.646	-0.15	0.17		-9368.79		-9199.41		-0.17	0.01	-9199.57	
388	K				39.56		1.9215		2.522				91173.43
		0.908	-0.25	1.91		-6920.96		-6795.84		-0.24	0.01	-6796.07	
63049	K				39.53		1.9220		2.510				84377.36
		1.900	-0.21	-0.20		-7957.70		-7813.85		-0.43	0.03	-7814.25	
391	K				39.51		1.9228		2.489				76563.11
		28.179	0.15	0.74		-27660.96		-27160.74		-6.20	0.39	-27166.55	

9.2 C KAUSALA 1984.16

391	K				39.51		1.9228		2.489				76563.11
		1.959	0.00	0.08		917.08		900.51		-0.31	0.03	900.23	
47001A	K				39.50		1.9213		2.469				77463.33
		1.959	0.00	0.08		917.08		900.51		-0.31	0.03	900.23	

9.2 D KAUSALA-KOUVOLA 1979.42

47001A	K				39.50		1.9213		2.469				77463.33
		1.703	-0.09	-0.51		-4802.73		-4715.90		-0.37	0.02	-4716.25	
393	M				39.48		1.9200		2.451				72747.08
		2.070	0.16	-0.71		10595.98		10404.40		-0.47	0.03	10403.96	
37056	M				39.46		1.9183		2.428				83151.04
		2.310	0.00	-0.80		-4325.87		-4247.65		-0.55	0.03	-4248.17	
37057	M				39.43		1.9199		2.402				78902.87
		1.080	0.11	0.36		-6816.63		-6693.39		-0.22	0.01	-6693.60	
396	K				39.43		1.9210		2.391				72209.28
		2.008	-0.13	-1.68		-3992.15		-3919.98		-0.46	0.03	-3920.41	
37058	M				39.40		1.9214		2.369				68288.86
		2.130	0.04	-2.32		126.43		124.15		-0.50	0.03	123.68	
399	K				39.37		1.9234		2.344				68412.54
		1.928	-0.15	-1.51		-8019.08		-7874.12		-0.51	-2.15	-7876.78	
37059	S				39.33		1.9215		2.320				60535.76
		2.114	-0.27	-0.58		-6810.47		-6687.35		-0.44	0.25	-6687.54	
37060	S				39.31		1.9213		2.298				53848.22
		1.888	-0.10	-1.29		4391.66		4312.26		-0.21	0.22	4312.27	
403	K				39.32		1.9220		2.288				58160.49

1	2	3	4	5	6	7	8	9	10	11	12	13	14
403	K				39.32		1.9220		2.288				58160.49
		1.256	0.02	-0.25		1265.85		1242.96		0.01	0.10	1243.07	
AP0102	P				39.35		1.9221		2.289				59403.56
		1.875	0.03	-2.22		-6389.22		-6273.72		-0.14	0.15	-6273.71	
37061	R				39.38		1.9229		2.282				53129.84
		1.698	-0.36	-1.60		10458.43		10269.38		-0.19	0.13	10269.32	
409	K				39.39		1.9227		2.273				63399.17
		22.060	-0.74	-13.11		-14317.80		-14058.97		-4.05	-1.15	-14064.17	

9.2 E KOUVOLA 1979.57

409	K				39.39		1.9227		2.273				63399.17
		1.082	-0.23	0.24		6850.23		6726.39		-0.14	0.21	6726.46	
410	P				39.40		1.9204		2.266				70125.61
		0.884	0.05	-0.07		3054.45		2999.23		-0.08	0.17	2999.32	
37062	K				39.41		1.9204		2.262				73124.93
		1.966	-0.18	0.17		9904.68		9725.62		-0.22	0.38	9725.78	

10 KOUVOLA-KYMINLINNA 1979.46

37062	K				39.41		1.9204		2.262				73124.93
		0.036	-0.01	-0.08		-2342.23		-2299.88		-0.01	0.00	-2299.89	
80201	K				39.41		1.9209		2.262				70825.05
		2.105	0.05	-1.14		1075.15		1055.72		-0.27	0.93	1056.38	
74009	M				39.41		1.9211		2.248				71881.44
		1.544	-0.16	0.27		-12243.51		-12022.17		-0.28	0.09	-12022.36	
79202	M				39.40		1.9233		2.235				59859.08
		1.446	-0.58	0.62		-8365.37		-8214.16		-0.26	0.08	-8214.34	
79203	M				39.34		1.9240		2.222				51644.74
		1.776	-0.21	-0.38		2014.57		1978.15		-0.28	0.10	1977.97	
79204	M				39.28		1.9220		2.209				53622.72
		1.269	-0.08	-0.45		473.50		464.94		-0.25	0.07	464.76	
415	K				39.23		1.9214		2.196				54087.48
		1.328	-0.01	-0.39		-5130.36		-5037.61		-0.28	0.08	-5037.81	
58029	K				39.18		1.9226		2.183				49049.67
		1.376	-0.20	0.81		-2473.93		-2429.20		-0.30	0.08	-2429.42	
79205	M				39.13		1.9222		2.168				46620.25
		1.310	-0.33	0.66		-3756.68		-3688.77		-0.33	0.08	-3689.02	
71006	S				39.09		1.9226		2.152				42931.22
		1.966	-0.18	-0.90		-1500.52		-1473.40		-0.46	0.11	-1473.75	
58031	S				39.02		1.9217		2.129				41457.48
		1.601	-0.30	-0.35		5162.11		5068.78		-0.40	0.09	5068.47	
58032	M				38.96		1.9207		2.110				46525.95
		1.556	0.22	-0.02		-9338.40		-9169.58		-0.40	0.09	-9169.89	
422	K				38.92		1.9237		2.091				37356.06
		1.806	-0.21	0.86		-2051.80		-2014.71		-0.42	0.10	-2015.03	
58033	S				38.85		1.9228		2.070				35341.03
		1.714	-0.15	1.66		-1040.60		-1021.78		-0.37	0.10	-1022.05	
79206	S				38.79		1.9228		2.052				34318.97
		1.822	-0.19	0.33		190.37		186.93		-0.38	0.11	186.66	
79207	K				38.72		1.9225		2.033				34505.63
		0.016	0.00	-0.06		-272.13		-267.21		0.00	0.00	-267.21	
426	K				38.72		1.9225		2.033				34238.42
		2.556	-0.12	0.94		-2448.19		-2403.95		-0.62	0.15	-2404.42	
38212	K				38.63		1.9221		2.003				31834.01
		1.722	-0.17	-0.71		-2329.81		-2287.69		-0.42	0.10	-2288.01	
38213	K				38.58		1.9218		1.983				29546.00
		1.426	-0.13	-0.32		113.41		111.36		-0.34	0.08	111.10	
431	K				38.53		1.9204		1.966				29657.10
		1.104	-0.07	-0.15		739.33		725.97		-0.25	0.06	725.78	
432	K				38.48		1.9195		1.953				30382.90
		0.792	-0.28	0.28		-5670.81		-5568.28		-0.18	0.05	-5568.41	
433	K				38.45		1.9201		1.944				24814.48
		2.009	-0.33	-0.55		3601.92		3536.79		-0.47	0.12	3536.44	
435	K				38.38		1.9168		1.922				28350.92

1	2	3	4	5	6	7	8	9	10	11	12	13	14
435	K				38.38		1.9168		1.922				28350.92
		1.046	-0.01	0.75		4437.53		4357.28		-0.24	0.06	4357.10	
436	K				38.34		1.9153		1.910				32708.02
		0.966	-0.02	0.90		-469.64		-461.15		-0.23	0.06	-461.32	
437	K				38.32		1.9146		1.899				32246.69
		0.930	-0.16	0.01		-4938.48		-4849.16		-0.22	0.05	-4849.33	
438	K				38.30		1.9148		1.888				27397.37
		2.048	-0.10	-0.82		-2374.89		-2331.94		-0.49	0.12	-2332.31	
66001	K				38.24		1.9146		1.864				25065.06
		1.224	-0.30	0.68		-2747.85		-2698.17		-0.28	0.07	-2698.38	
70001	K				38.20		1.9144		1.850				22366.69
		0.793	-0.25	-0.84		-6011.26		-5902.55		-0.17	0.05	-5902.67	
70002	K				38.17		1.9160		1.842				16464.00
		1.218	-0.08	-0.83		-2005.59		-1969.32		-0.13	0.07	-1969.38	
70003	K				38.12		1.9157		1.836				14494.64
		0.923	0.15	0.57		6674.95		6554.23		-0.09	0.05	6554.19	
443	M				38.09		1.9142		1.831				21048.83
		1.174	-0.19	-0.47		-4797.89		-4711.12		-0.05	0.07	-4711.10	
70004	M				38.06		1.9144		1.829				16337.73
		0.943	0.01	-0.30		-4333.72		-4255.35		-0.05	0.05	-4255.35	
67011	K				38.03		1.9164		1.826				12082.38
		1.992	0.05	0.24		3307.45		3247.63		-0.16	0.12	3247.59	
58036	K				37.96		1.9145		1.818				15329.97
		1.537	-0.15	-0.56		5149.24		5056.12		-0.23	0.09	5055.98	
61050	K				37.91		1.9130		1.807				20385.94
		1.107	-0.69	0.10		-13149.72		-12911.90		-0.16	0.06	-12912.00	
449	S				37.87		1.9152		1.799				7473.94
		0.556	0.00	-0.28		2675.23		2626.85		-0.12	0.03	2626.76	
74007	K				37.85		1.9150		1.793				10100.70
		48.737	-5.18	0.08		-64178.61		-63018.28		-9.59	3.62	-63024.25	

11 A OULUNKYLÄ-ÖSTERSUNDOM 1978.47

68031	K				36.65		1.9054		2.319				18863.54
		0.188	-0.02	0.06		-174.13		-170.98		-0.05	0.00	-171.03	
AP0800	P				36.65		1.9053		2.317				18692.50
		0.732	-0.06	-0.03		-5795.06		-5690.20		-0.18	-0.02	-5690.40	
AP25	P				36.64		1.9054		2.308				13002.11
		0.594	0.00	-0.70		543.51		533.67		-0.04	-0.02	533.61	
36101	K				36.64		1.9052		2.306				13535.72
		1.228	-0.34	0.48		-8186.98		-8038.84		-0.30	-0.03	-8039.17	
78111	P				36.62		1.9044		2.292				5496.56
		1.504	0.09	0.22		8167.54		8019.74		-0.33	-0.04	8019.37	
70011	K				36.59		1.9018		2.277				13515.93
		0.892	0.12	0.49		3080.22		3024.47		-0.21	-0.02	3024.24	
78114	K				36.58		1.9007		2.268				16540.17
		0.940	-0.41	-0.99		-8018.22		-7873.10		-0.18	-0.02	-7873.30	
78115	K				36.55		1.9019		2.260				8666.86
		0.506	0.17	-0.02		-1960.30		-1924.82		-0.08	-0.01	-1924.91	
AP29	P				36.55		1.9022		2.256				6741.95
		1.612	0.05	-0.23		-123.37		-121.13		-0.13	-0.04	-121.30	
78116	K				36.56		1.9026		2.250				6620.65
		1.842	0.26	0.26		6935.80		6810.27		0.08	-0.05	6810.30	
36106	K				36.60		1.9018		2.253				13430.95
		1.516	0.27	-0.57		-2787.78		-2737.33		0.09	-0.04	-2737.28	
78112	K				36.64		1.9048		2.257				10693.67
		0.956	0.01	-0.02		-1905.24		-1870.77		0.11	-0.02	-1870.68	
78113	K				36.67		1.9074		2.262				8822.99
		1.032	0.19	0.47		370.56		363.85		0.08	-0.03	363.90	
78117	K				36.70		1.9091		2.266				9186.89
		0.806	0.09	-0.56		4520.70		4438.91		0.04	-0.02	4438.93	
78118	K				36.72		1.9082		2.268				13625.82
		1.297	0.06	0.07		-235.72		-231.45		-0.07	-0.03	-231.55	
53151	K				36.74		1.9083		2.264				13394.27
		15.645	0.48	-1.07		-5568.46		-5467.70		-1.17	-0.39	-5469.26	

1	2	3	4	5	6	7	8	9	10	11	12	13	14
						11 B ÖSTERSUNDOM-PORVOO 1978.72							
53151	K				36.74		1.9083		2.264				13394.27
		0.440	-0.05	0.48		-1131.82		-1111.35		-0.02	-0.01	-1111.38	
78121	K				36.74		1.9089		2.263				12282.90
		1.430	0.09	-1.28		-3509.60		-3446.11		-0.03	-0.04	-3446.18	
78119	K				36.77		1.9122		2.262				8836.72
		0.080	0.02	0.00		3824.19		3755.02		-0.01	0.00	3755.01	
53143	K				36.77		1.9115		2.261				12591.73
		0.165	0.02	0.42		2443.89		2399.68		-0.03	0.00	2399.65	
70010	K				36.77		1.9110		2.260				14991.37
		1.778	-0.29	1.43		-10036.50		-9854.96		-0.16	-0.05	-9855.17	
53147	M				36.78		1.9137		2.252				5136.21
		0.020	-0.01	0.10		-1341.31		-1317.05		0.00	0.00	-1317.05	
36111	K				36.78		1.9140		2.252				3819.16
		1.589	0.23	0.36		14095.71		13840.76		-0.18	-0.04	13840.54	
78203	K				36.79		1.9125		2.244				17659.69
		1.482	-0.11	0.06		-298.73		-293.33		0.10	-0.04	-293.27	
78204	K				36.83		1.9150		2.249				17366.43
		1.090	0.41	-0.97		7664.58		7525.98		0.12	-0.03	7526.07	
78205	K				36.86		1.9147		2.254				24892.50
		0.546	-0.16	-0.50		-11540.85		-11332.15		0.05	-0.01	-11332.11	
53146	M				36.88		1.9176		2.257				13560.38
		1.528	-0.35	-0.77		-10788.29		-10593.23		0.10	-0.04	-10593.17	
53148	K				36.92		1.9208		2.261				2967.21
		1.450	0.35	-0.26		14409.58		14149.06		-0.11	-0.04	14148.91	
57001	M				36.94		1.9191		2.256				17116.12
		1.539	-0.05	0.08		810.58		795.92		-0.09	-0.04	795.79	
57002	K				36.95		1.9192		2.252				17911.92
		1.784	0.11	0.64		-2635.82		-2588.17		0.08	-0.05	-2588.14	
57003	M				37.00		1.9213		2.256				15323.78
		1.177	-0.03	1.07		-2748.78		-2699.09		0.00	-0.03	-2699.12	
57004	M				37.02		1.9219		2.256				12624.67
		0.990	-0.04	-0.13		1868.91		1835.12		-0.02	-0.03	1835.07	
78210	K				37.04		1.9214		2.255				14459.75
		1.064	0.19	0.81		3252.74		3193.93		0.00	-0.03	3193.90	
57019	K				37.06		1.9206		2.255				17653.65
		2.078	0.07	-1.64		-949.10		-931.94		0.03	-0.05	-931.96	
78206	K				37.11		1.9208		2.256				16721.68
		1.086	-0.18	-0.39		-6266.66		-6153.37		0.01	-0.03	-6153.39	
57021	K				37.14		1.9216		2.257				10568.30
		1.412	0.05	-0.36		-2802.61		-2751.95		0.00	-0.04	-2751.99	
36123	M				37.17		1.9212		2.257				7816.31
		1.129	0.12	-0.51		6163.02		6051.60		-0.08	-0.03	6051.49	
78209	K				37.19		1.9199		2.253				13867.80
		2.050	0.11	0.44		-2756.63		-2706.80		0.04	-0.05	-2706.81	
78208	K				37.23		1.9217		2.255				11160.99
		1.633	-0.01	0.47		3987.05		3914.97		-0.10	-0.04	3914.83	
57024	K				37.26		1.9192		2.250				15075.81
		1.254	0.00	0.78		-637.94		-626.40		-0.09	-0.03	-626.52	
57025	K				37.27		1.9174		2.246				14449.29
		1.230	0.00	0.34		-1179.78		-1158.44		-0.06	-0.03	-1158.53	
78207	K				37.29		1.9176		2.243				13290.76
		1.640	0.40	-0.17		14137.85		13882.20		0.08	-0.04	13882.24	
57026A	K				37.34		1.9146		2.247				27172.99
		1.142	-0.15	-0.51		-23658.86		-23231.03		-0.01	-0.03	-23231.07	
36130	K				37.37		1.9188		2.246				3941.92
		0.847	-0.01	-0.28		39349.78		38638.15		0.01	-0.02	38638.14	
78211	K				37.39		1.9117		2.247				42580.06
		1.335	0.25	0.31		-1006.15		-987.96		0.04	-0.03	-987.95	
2287	M				37.42		1.9131		2.249				41592.10
		1.696	-0.01	-0.56		-11960.07		-11743.76		0.02	-0.04	-11743.78	
36131	K				37.45		1.9147		2.250				29848.32
		0.016	0.00	0.02		-422.11		-414.48		0.00	0.00	-414.48	
2288	K				37.45		1.9148		2.249				29433.84

1	2	3	4	5	6	7	8	9	10	11	12	13	14
2288	K				37.45		1.9148		2.249				29433.84
		1.015	0.03	-0.82		11651.94		11441.20		0.04	-0.03	11441.21	
2289	K				37.47		1.9124		2.251				40875.05
		37.715	1.00	-1.34		27988.23		27482.03		-0.27	-0.97	27480.79	

11 C PORVOO-PERNAJA 1978.76

2289	K				37.47		1.9124		2.251				40875.05
		0.780	0.15	-0.20		-23574.97		-23148.61		-0.02	-0.02	-23148.65	
78212	K				37.48		1.9164		2.250				17726.41
		1.107	0.25	-0.13		5505.31		5405.75		0.11	-0.03	5405.83	
57027	M				37.52		1.9148		2.255				23132.24
		1.840	0.06	-0.91		-7883.16		-7740.60		0.34	-0.05	-7740.31	
78213	K				37.59		1.9170		2.272				15391.94
		1.994	0.09	0.05		-5586.40		-5485.39		-0.05	-0.05	-5485.49	
36135	K				37.62		1.9190		2.269				9906.46
		1.566	0.33	-0.99		24424.07		23982.41		0.18	-0.04	23982.55	
78217	K				37.67		1.9146		2.277				33889.01
		1.378	0.12	0.82		6261.09		6147.86		-0.08	-0.04	6147.74	
78216	K				37.70		1.9147		2.274				40036.75
		1.138	0.08	0.72		-7135.91		-7006.86		-0.05	-0.03	-7006.94	
78215	K				37.72		1.9161		2.271				33029.81
		1.322	-0.08	-0.39		-8539.48		-8385.05		-0.13	-0.03	-8385.21	
78214	K				37.74		1.9165		2.265				24644.60
		1.072	-0.23	0.76		-6344.79		-6230.05		-0.16	-0.03	-6230.24	
36138	M				37.74		1.9162		2.257				18414.36
		0.080	-0.01	0.10		3102.55		3046.44		0.00	0.00	3046.44	
2298	K				37.74		1.9156		2.257				21460.80
		1.140	0.09	0.42		965.75		948.29		-0.07	-0.03	948.19	
36139	M				37.76		1.9148		2.254				22408.99
		1.850	0.07	0.72		-17409.63		-17094.80		-0.17	-0.05	-17095.02	
57028	K				37.79		1.9174		2.246				5313.97
		0.834	0.15	1.11		15561.55		15280.14		-0.05	-0.02	15280.07	
2301	K				37.80		1.9142		2.243				20594.05
		0.588	0.05	0.55		6784.74		6662.03		-0.06	-0.02	6661.95	
78218	K				37.81		1.9129		2.241				27256.00
		1.089	-0.06	1.20		-11441.03		-11234.11		-0.03	-0.03	-11234.17	
36141	M				37.83		1.9149		2.239				16021.83
		1.522	-0.07	0.87		1025.68		1007.13		-0.39	-0.04	1006.70	
78219	K				37.81		1.9134		2.221				17028.54
		1.377	-0.10	0.11		8377.91		8226.37		-0.38	-0.04	8225.95	
36143	M				37.78		1.9086		2.203				25254.49
		1.242	-0.15	-0.67		2975.72		2921.88		-0.35	-0.03	2921.50	
78220	K				37.76		1.9067		2.186				28175.99
		1.757	-0.09	0.14		-10315.05		-10128.43		-0.46	-0.05	-10128.94	
78221	K				37.71		1.9081		2.164				18047.05
		0.662	-0.11	-0.41		9020.44		8857.23		-0.23	-0.02	8856.98	
78222	K				37.68		1.9057		2.153				26904.04
		1.050	-0.07	-0.13		-14200.56		-13943.62		-0.28	-0.03	-13943.93	
78223	K				37.65		1.9077		2.140				12960.11
		25.388	0.47	3.74		-28426.15		-27911.97		-2.33	-0.68	-27914.98	

11 D PERNAJA (ORIGINAL ROUTE) 1978.83

78223	K				37.65		1.9077		2.140				12960.11
		2.038	-0.14	-0.16		9692.34		9516.97		-0.22	-0.55	9516.20	
36147	K				37.59		1.9035		2.130				22476.31
		2.082	-0.26	0.25		-1960.93		-1925.44		-0.48	-0.56	-1926.48	
2311	K				37.55		1.9024		2.107				20549.83
		1.240	0.13	0.16		-6808.17		-6684.97		-0.14	-0.33	-6685.44	
78007	K				37.57		1.9034		2.100				13864.37
		0.954	-0.19	0.75		1267.69		1244.75		-0.03	-0.26	1244.46	
78008	K				37.59		1.9038		2.099				15108.83
		0.020	0.00	0.15		-33.53		-32.93		0.01	-0.01	-32.93	
2313	K				37.59		1.9038		2.100				15075.91

1	2	3	4	5	6	7	8	9	10	11	12	13	14
2313	K				37.59		1.9038		2.100				15075.91
		1.296	0.36	0.01		-296.93		-291.56		0.04	-0.35	-291.87	
2314	M				37.62		1.9038		2.101				14784.05
		7.630	-0.10	1.16		1860.47		1826.82		-0.82	-2.06	1823.94	

11 E PERNAJA-SILTAKYLÄ 1978.82

2314	M				37.62		1.9038		2.101				14784.05
		1.278	-0.11	0.59		-7283.60		-7151.80		-0.17	-0.03	-7152.00	
36150	M				37.63		1.9053		2.093				7632.04
		1.208	-0.05	0.46		2146.72		2107.87		-0.26	-0.03	2107.58	
36151	M				37.63		1.9049		2.081				9739.62
		1.832	0.01	-1.69		13753.68		13504.78		-0.33	-0.05	13504.40	
78226	M				37.63		1.9018		2.065				23244.03
		2.202	0.02	0.11		-2078.69		-2041.07		-0.42	-0.06	-2041.55	
36154	M				37.62		1.9019		2.045				21202.48
		1.116	-0.03	0.20		-17967.76		-17642.61		-0.09	-0.03	-17642.73	
78227	M				37.64		1.9052		2.041				3559.75
		1.502	0.41	1.06		22806.70		22393.97		-0.15	-0.04	22393.78	
78228	K				37.66		1.9011		2.034				25953.53
		0.703	0.02	-0.66		-1005.36		-987.16		-0.07	-0.02	-987.25	
2319	M				37.67		1.9015		2.031				24966.28
		1.472	0.08	-0.28		-5227.41		-5132.81		-0.13	-0.04	-5132.98	
78229	K				37.69		1.9031		2.025				19833.31
		2.405	0.15	-1.30		-10696.67		-10503.11		-0.23	-0.06	-10503.40	
36156	M				37.73		1.9062		2.014				9329.90
		1.332	0.02	-0.07		-2570.34		-2523.84		-0.27	-0.03	-2524.14	
78230	M				37.73		1.9070		2.001				6805.76
		1.808	0.03	0.53		9996.44		9815.57		-0.23	-0.05	9815.29	
36158	M				37.75		1.9060		1.990				16621.05
		1.954	0.04	0.04		21201.45		20817.80		-0.14	-0.05	20817.61	
78231	K				37.78		1.9021		1.984				37438.66
		1.460	-0.09	0.33		-30776.79		-30219.90		-0.19	-0.04	-30220.13	
78232	M				37.79		1.9092		1.975				7218.53
		1.516	-0.08	0.20		2080.27		2042.64		-0.39	-0.04	2042.21	
58010	M				37.77		1.9081		1.957				9260.73
		1.654	-0.11	1.01		10551.25		10360.36		-0.27	-0.04	10360.05	
58011	M				37.77		1.9061		1.944				19620.78
		1.490	-0.03	2.11		-9301.32		-9133.03		-0.27	-0.04	-9133.34	
36164	M				37.77		1.9075		1.931				10487.44
		1.654	-0.18	0.44		7906.40		7763.36		-0.27	-0.04	7763.05	
36165	M				37.78		1.9063		1.919				18250.48
		0.590	-0.11	1.11		8062.63		7916.74		-0.12	-0.02	7916.60	
615351	M				37.77		1.9047		1.913				26167.10
		1.284	-0.07	-1.80		-873.09		-857.29		-0.21	-0.03	-857.53	
36167	M				37.78		1.9049		1.903				25309.56
		1.762	0.12	1.54		-4859.79		-4771.86		-0.33	-0.05	-4772.24	
36168	M				37.78		1.9067		1.888				20537.33
		1.530	-0.04	1.27		-5846.20		-5740.43		-0.30	-0.04	-5740.77	
36169	M				37.77		1.9085		1.874				14796.56
		1.664	0.01	0.75		6723.54		6601.90		-0.27	-0.04	6601.59	
78233A	K				37.78		1.9086		1.861				21398.14
		0.018	0.00	-0.09		-1423.74		-1397.98		0.01	0.00	-1397.97	
78233	K				37.78		1.9089		1.861				20000.16
		33.434	0.01	5.86		5318.33		5222.09		-5.10	-0.87	5216.12	

11 F SILTAKYLÄ-KANGASMÄKI 1979.32

78233	K				37.78		1.9089		1.861				20000.16
		0.018	0.00	-0.09		1423.74		1397.98		-0.01	0.00	1397.97	
78233A	K				37.78		1.9086		1.861				21398.14
		1.617	-0.20	1.67		-14212.20		-13955.11		-0.11	-0.04	-13955.26	
36171	K				37.80		1.9123		1.856				7442.87
		0.720	-0.08	-0.23		-2162.72		-2123.60		-0.15	-0.02	-2123.77	
78237	K				37.78		1.9127		1.849				5319.10

1	2	3	4	5	6	7	8	9	10	11	12	13	14
78237	K				37.78		1.9127		1.849				5319.10
		1.146	0.37	1.33		10828.49		10632.63		-0.10	-0.03	10632.50	
78234	K				37.79		1.9126		1.844				15951.60
		1.885	0.04	0.69		1334.06		1309.93		-0.22	-0.05	1309.66	
78235	K				37.81		1.9137		1.833				17261.27
		5.386	0.13	3.37		-2788.64		-2738.18		-0.59	-0.14	-2738.91	

11 G KANGASMÄKI 1978.82

78235	K				37.81		1.9137		1.833				17261.27
		1.112	0.15	1.38		-7830.81		-7689.19		-0.18	-0.03	-7689.40	
78236	K				37.81		1.9154		1.825				9571.87
		1.112	0.15	1.38		-7830.81		-7689.19		-0.18	-0.03	-7689.40	

11 H KANGASMÄKI-KYMINLINNA 1979.37

78236	K				37.81		1.9154		1.825				9571.87
		1.743	-0.04	-1.69		2094.27		2056.40		-0.31	-0.04	2056.05	
79201	K				37.80		1.9148		1.810				11627.90
		1.097	0.40	-0.01		16793.37		16489.64		-0.10	-0.03	16489.51	
58012	K				37.81		1.9116		1.805				28117.41
		1.350	0.26	-0.92		-4194.55		-4118.68		-0.12	-0.03	-4118.83	
2338	K				37.82		1.9128		1.800				23998.59
		0.246	-0.02	0.10		-8047.86		-7902.30		-0.01	-0.01	-7902.32	
36176	M				37.83		1.9145		1.799				16096.26
		1.382	0.23	0.99		-9459.16		-9288.09		0.05	-0.04	-9288.08	
2339	K				37.86		1.9157		1.802				6808.20
		0.956	-0.04	0.13		3353.35		3292.71		-0.18	-0.02	3292.51	
74007	K				37.85		1.9150		1.793				10100.70
		6.774	0.79	-1.40		539.42		529.69		-0.67	-0.17	528.84	

11 X PERNAJA (NEW ROUTE. WITH 11D) 1978.78

78223	K				37.65		1.9077		2.140				12960.11
		1.402	-0.21	-0.24		15310.65		15033.61		-0.33	0.34	15033.62	
78224	K				37.64		1.9032		2.125				27993.73
		0.968	0.01	-0.54		744.59		731.11		-0.24	0.24	731.11	
78225	K				37.63		1.9015		2.113				28724.84
		1.228	-0.12	-0.92		-14197.78		-13940.84		-0.25	0.30	-13940.79	
2314	M				37.62		1.9038		2.101				14784.05
		3.598	-0.32	-1.70		1857.46		1823.88		-0.82	0.88	1823.94	

12 A KOUVOLA-PULSA 1980.38

37062	K				39.41		1.9204		2.262				73124.93
		0.036	-0.01	-0.08		-2342.23		-2299.88		-0.01	0.00	-2299.89	
80201	K				39.41		1.9209		2.262				70825.05
		2.042	0.00	0.33		1077.05		1057.58		-0.26	-0.94	1056.38	
74009	M				39.41		1.9211		2.248				71881.44
		1.435	-0.51	-1.24		-7265.41		-7134.07		-0.18	-0.10	-7134.35	
80202	M				39.42		1.9227		2.239				64747.09
		1.494	0.07	-0.07		-845.90		-830.61		-0.18	-0.11	-830.90	
73003	K				39.42		1.9230		2.230				63916.20
		2.067	0.25	-1.82		4728.88		4643.40		-0.19	-0.15	4643.06	
38003	M				39.44		1.9223		2.220				68559.26
		0.884	-0.14	0.63		-1693.58		-1662.97		-0.08	-0.06	-1663.11	
73004	K				39.45		1.9234		2.216				66896.15
		1.762	-0.64	0.81		-5182.22		-5088.54		-0.26	-0.13	-5088.93	
59023	R				39.45		1.9239		2.203				61807.22
		1.048	-0.04	1.17		297.83		292.44		-0.15	-0.08	292.21	
AP0103	R				39.45		1.9239		2.195				62099.43
		1.813	0.23	1.18		5701.11		5598.05		-0.26	-0.13	5597.66	
59024	K				39.46		1.9232		2.182				67697.08

1	2	3	4	5	6	7	8	9	10	11	12	13	14
59024	K				39.46		1.9232		2.182				67697.08
		2.276	0.20	-0.12		-3086.18		-3030.40		-0.23	-0.16	-3030.79	
38006	M				39.47		1.9245		2.170				64666.30
		1.819	0.13	-1.50		6707.73		6586.48		-0.21	-0.13	6586.14	
676	M				39.48		1.9225		2.159				71252.44
		2.190	0.36	2.03		-3283.18		-3223.83		-0.20	-0.16	-3224.19	
AP0201	P				39.51		1.9235		2.149				68028.24
		1.815	0.58	-0.34		8013.31		7868.46		-0.14	-0.13	7868.19	
678	M				39.53		1.9229		2.142				75896.43
		2.485	-0.70	0.45		19814.18		19455.95		-0.24	-0.18	19455.53	
680	P				39.55		1.9188		2.130				95351.96
		1.560	-0.27	0.66		-7509.55		-7373.78		-0.18	-0.11	-7374.07	
681	M				39.56		1.9210		2.121				87977.89
		1.024	0.04	-0.03		5087.74		4995.77		-0.13	-0.07	4995.57	
682	M				39.56		1.9203		2.114				92973.45
		1.016	0.01	0.83		5063.45		4971.91		-0.14	-0.07	4971.70	
59026	M				39.56		1.9191		2.107				97945.15
		1.793	0.37	1.54		5221.35		5126.94		-0.23	-0.13	5126.58	
59025	M				39.57		1.9180		2.095				103071.73
		1.857	-0.15	1.67		-4642.17		-4558.23		-0.23	-0.13	-4558.59	
80203	M				39.58		1.9196		2.084				98513.13
		1.504	-0.07	0.57		-603.96		-593.04		-0.19	-0.11	-593.34	
38009	M				39.58		1.9195		2.074				97919.81
		1.985	0.14	-1.24		6341.96		6227.29		-0.25	-0.14	6226.90	
38010	K				39.59		1.9201		2.061				104146.70
		2.489	0.17	0.95		7900.72		7757.87		-0.32	-0.18	7757.37	
688	M				39.60		1.9189		2.045				111904.07
		2.231	-0.09	1.53		-7663.76		-7525.20		-0.29	-0.16	-7525.65	
AP0300	P				39.61		1.9206		2.030				104378.42
		2.233	-0.10	-0.48		-12247.67		-12026.25		-0.29	-0.16	-12026.70	
689	R				39.62		1.9232		2.015				92351.72
		2.070	0.02	1.00		10716.45		10522.72		-0.26	-0.15	10522.31	
38012	P				39.63		1.9210		2.002				102874.03
		1.391	-0.15	0.73		-3334.48		-3274.20		-0.18	-0.10	-3274.48	
80204	K				39.63		1.9231		1.993				99599.55
		0.060	-0.02	0.00		3332.30		3272.06		0.01	0.00	3272.07	
61006	M				39.63		1.9222		1.993				102871.62
		2.317	-0.57	0.81		-22954.96		-22540.03		-0.41	-0.17	-22540.61	
38013	M				39.62		1.9262		1.972				80331.00
		0.022	-0.01	-0.27		495.46		486.50		0.00	0.00	486.50	
61007	M				39.62		1.9262		1.972				80817.50
		2.253	-0.01	1.39		-4777.73		-4691.38		-0.42	-0.16	-4691.96	
61008	M				39.60		1.9265		1.951				76125.53
		1.997	-0.66	-0.38		-8288.26		-8138.48		-0.21	-0.14	-8138.83	
61009	M				39.61		1.9293		1.940				67986.70
		1.644	0.14	0.08		5779.66		5675.21		-0.02	-0.12	5675.07	
59028	M				39.65		1.9284		1.940				73661.77
		0.300	0.00	0.01		18.86		18.51		0.01	-0.02	18.50	
61010	M				39.66		1.9292		1.940				73680.28
		0.799	0.04	0.60		-653.75		-641.94		-0.01	-0.06	-642.01	
696	K				39.67		1.9301		1.939				73038.27
		1.540	0.05	0.17		-10749.94		-10555.70		-0.11	-0.11	-10555.92	
59029	M				39.70		1.9314		1.934				62482.34
		1.716	-0.05	0.04		-765.11		-751.29		-0.17	-0.12	-751.58	
697	M				39.71		1.9317		1.925				61730.77
		1.093	0.38	0.61		7333.65		7201.15		-0.10	-0.08	7200.97	
61011	K				39.73		1.9332		1.920				68931.73
		0.947	0.32	-1.08		-4194.40		-4118.62		-0.09	-0.07	-4118.78	
61012	K				39.74		1.9332		1.916				64812.95
		0.584	0.07	-0.97		-2720.35		-2671.20		-0.05	-0.04	-2671.29	
700	P				39.74		1.9341		1.913				62141.67
		1.576	0.14	0.78		-568.18		-557.91		-0.17	-0.11	-558.19	
38016	M				39.76		1.9343		1.905				61583.46
		1.777	-0.63	2.44		4847.12		4759.55		-0.32	-0.13	4759.10	
80205	K				39.75		1.9323		1.888				66342.57
		1.767	-0.09	1.70		-286.24		-281.07		-0.37	-0.13	-281.57	
59030	K				39.72		1.9312		1.869				66061.00

1	2	3	4	5	6	7	8	9	10	11	12	13	14
59030	K				39.72		1.9312		1.869				66061.00
		2.323	0.18	-1.45		-3626.60		-3561.07		-0.42	-0.17	-3561.66	
703	K				39.70		1.9289		1.848				62499.34
		67.034	-1.02	13.64		-10806.99		-10611.85		-8.13	-5.60	-10625.58	

12 B PULSA-SIMOLA 1980.56

703	K				39.70		1.9289		1.848				62499.34
		0.012	-0.01	-0.05		1217.53		1195.53		0.00	0.00	1195.53	
59031	K				39.70		1.9286		1.848				63694.87
		2.168	0.09	-0.46		3892.77		3822.42		-0.36	-0.16	3821.90	
38017	K				39.69		1.9286		1.829				67516.77
		0.951	0.00	0.02		-87.78		-86.20		-0.16	-0.07	-86.43	
59032	K				39.69		1.9301		1.821				67430.34
		1.108	0.00	-0.21		-143.23		-140.64		-0.22	-0.08	-140.94	
707	K				39.67		1.9305		1.809				67289.41
		2.600	-0.40	0.15		-10734.70		-10540.76		-0.41	-0.19	-10541.36	
38189	K				39.67		1.9353		1.788				56748.05
		2.020	0.12	0.59		-1417.99		-1392.37		-0.41	-0.15	-1392.93	
38188	K				39.64		1.9333		1.767				55355.12
		0.020	0.00	0.02		-246.09		-241.64		0.00	0.00	-241.64	
59033	K				39.64		1.9334		1.767				55113.48
		1.077	0.04	-0.31		1620.15		1590.88		-0.21	-0.08	1590.59	
710	K				39.63		1.9325		1.756				56704.08
		1.242	-0.30	0.82		-5413.17		-5315.36		-0.25	-0.09	-5315.70	
711	K				39.61		1.9314		1.743				51388.37
		0.030	0.00	-0.29		-552.53		-542.55		0.00	0.00	-542.55	
59034	M				39.61		1.9315		1.743				50845.82
		1.662	-0.09	0.26		2198.97		2159.24		-0.28	-0.12	2158.84	
59035	K				39.60		1.9322		1.729				53004.66
		0.861	0.02	0.41		3412.66		3351.00		-0.15	-0.06	3350.79	
80206	K				39.59		1.9319		1.721				56355.45
		0.166	-0.33	-0.05		-1693.63		-1663.03		0.03	0.21	-1662.79	
80130	K				39.60		1.9323		1.723				54692.64
		13.917	-0.86	0.90		-7947.05		-7803.48		-2.42	-0.79	-7806.69	

14.1 A HAMINA-KLAMILA 1980.41

36189	K				38.10		1.9220		1.744				1894.68
		1.239	0.41	-1.13		5448.44		5349.94		0.08	0.00	5350.02	
428O	K				38.13		1.9220		1.749				7244.70
		0.888	0.13	-0.04		4913.18		4824.35		-0.12	0.03	4824.26	
17	P				38.12		1.9197		1.742				12068.96
		1.078	-0.36	0.01		-9225.05		-9058.27		-0.18	0.03	-9058.42	
38019	K				38.10		1.9215		1.733				3010.54
		1.304	0.15	-0.04		5096.56		5004.42		-0.27	0.04	5004.19	
78006	K				38.07		1.9202		1.719				8014.72
		2.076	-0.57	-0.78		-4987.39		-4897.22		-0.40	0.07	-4897.55	
38021	K				38.02		1.9205		1.699				3117.18
		1.822	0.26	-0.51		7646.58		7508.33		-0.34	0.06	7508.05	
58016	K				37.98		1.9193		1.682				10625.22
		0.854	0.09	-0.14		11264.40		11060.72		-0.17	0.03	11060.58	
80104	K				37.95		1.9167		1.673				21685.81
		1.176	-0.31	0.49		-11158.56		-10956.80		-0.22	0.04	-10956.98	
58017	K				37.93		1.9186		1.662				10728.82
		2.014	0.01	1.60		10701.79		10508.27		-0.33	0.06	10508.00	
38024	K				37.90		1.9153		1.645				21236.83
		1.993	-0.43	-0.22		-12465.79		-12240.36		-0.29	0.06	-12240.59	
38025	M				37.89		1.9167		1.630				8996.24
		0.936	0.23	0.05		8493.68		8340.08		-0.15	0.03	8339.96	
80105	K				37.87		1.9148		1.623				17336.20
		1.098	0.31	-0.65		9175.51		9009.56		-0.12	0.04	9009.48	
80107	K				37.87		1.9129		1.617				26345.68

1	2	3	4	5	6	7	8	9	10	11	12	13	14
80107	K				37.87		1.9129		1.617				26345.68
		0.042	-0.09	0.02		-3033.98		-2979.10		-0.01	0.00	-2979.11	
38026	K				37.87		1.9135		1.616				23366.57
		16.520	-0.17	-1.34		21869.36		21473.92		-2.52	0.49	21471.89	

14.1 B KLAMILA-PYTERLAHTI 1980.64

38026	K				37.87		1.9135		1.616				23366.57
		2.162	-0.12	-0.71		-7830.60		-7688.98		-0.20	0.07	-7689.11	
58018	K				37.88		1.9154		1.606				15677.46
		1.960	-0.53	-0.06		-9787.67		-9610.68		-0.16	0.06	-9610.78	
58019	M				37.89		1.9183		1.598				6066.68
		1.854	0.34	-0.13		12707.94		12478.15		-0.16	0.06	12478.05	
38029	K				37.90		1.9168		1.590				18544.73
		1.924	0.45	0.37		14625.36		14360.87		-0.18	0.06	14360.75	
38030	K				37.91		1.9144		1.580				32905.48
		1.356	-0.66	0.45		-7035.98		-6908.74		-0.01	0.04	-6908.71	
80106	K				37.94		1.9160		1.580				25996.77
		1.072	0.17	-0.05		-5913.78		-5806.84		-0.09	0.03	-5806.90	
58020	K				37.94		1.9171		1.575				20189.88
		1.596	-0.22	0.14		-3058.15		-3002.85		-0.18	0.05	-3002.98	
38032	M				37.94		1.9172		1.566				17186.90
		0.036	0.01	0.02		2860.49		2808.77		0.01	0.00	2808.78	
58021	K				37.94		1.9166		1.566				19995.68
		2.002	-0.17	0.16		-15353.18		-15075.56		-0.06	0.06	-15075.56	
38033	M				37.97		1.9188		1.563				4920.13
		2.022	0.60	-1.70		20637.53		20264.33		0.00	0.07	20264.40	
38034	K				38.00		1.9146		1.564				25184.53
		0.836	0.87	0.34		28303.62		27791.66		0.04	0.03	27791.73	
761001	K				38.03		1.9093		1.565				52976.26
		1.410	-1.03	0.24		-26617.10		-26135.64		-0.10	0.05	-26135.69	
38035	M				38.04		1.9144		1.560				26840.56
		2.030	-0.77	0.08		-13072.34		-12835.93		-0.03	0.07	-12835.89	
38036	K				38.07		1.9165		1.559				14004.67
		20.260	-1.06	-0.85		-9533.86		-9361.43		-1.12	0.65	-9361.90	

14.1 C PYTERLAHTI-VAALIMAA 1980.66

38036	K				38.07		1.9165		1.559				14004.67
		0.040	0.00	0.05		1972.92		1937.24		-0.01	0.00	1937.23	
58022	M				38.07		1.9161		1.559				15941.90
		1.948	0.24	1.13		-85.50		-83.96		0.22	0.06	-83.68	
38037	K				38.14		1.9174		1.570				15858.22
		1.974	0.24	0.13		2041.78		2004.86		0.11	0.06	2005.03	
38038	K				38.19		1.9178		1.576				17863.26
		1.844	-0.16	-0.13		-11985.65		-11768.94		-0.09	0.06	-11768.97	
38039	M				38.21		1.9197		1.571				6094.29
		2.034	0.64	-0.03		29833.22		29293.75		-0.17	0.07	29293.65	
38040	K				38.22		1.9143		1.562				35387.93
		1.948	-0.28	0.43		-22068.53		-21669.46		-0.09	0.06	-21669.49	
38041	M				38.25		1.9186		1.558				13718.45
		2.054	1.20	-0.08		25265.29		24808.40		-0.12	0.07	24808.35	
38042	K				38.28		1.9140		1.551				38526.78
		11.842	1.88	1.50		24973.52		24521.89		-0.15	0.38	24522.12	

15 KYMINLINNA-HAMINA 1980.37

74007	K				37.85		1.9150		1.793				10100.70
		1.834	-0.05	0.66		-4499.90		-4418.53		-0.09	0.06	-4418.56	
III1936	K				37.88		1.9160		1.789				5682.14
		0.986	0.65	-0.34		18964.89		18621.89		0.00	0.03	18621.92	
KKP149	K				37.89		1.9125		1.789				24304.07
		2.230	-0.10	-1.74		-11488.24		-11280.46		0.07	0.07	-11280.32	
58098	K				37.95		1.9146		1.792				13023.76

1	2	3	4	5	6	7	8	9	10	11	12	13	14
58098	K				37.95		1.9146		1.792				13023.76
		1.850	-0.08	0.22		12789.21		12557.90		0.14	0.06	12558.10	
75005	M				38.01		1.9132		1.799				25581.85
		1.422	-0.35	1.58		-16174.60		-15882.09		0.11	0.05	-15881.93	
80101	K				38.05		1.9176		1.805				9699.93
		1.212	0.13	-0.07		-2360.00		-2317.33		-0.03	0.04	-2317.32	
80102	K				38.08		1.9181		1.803				7382.60
		0.664	0.41	-0.24		12550.71		12323.76		-0.09	0.02	12323.69	
58014	M				38.08		1.9169		1.799				19706.29
		1.770	0.02	-0.30		-10386.70		-10198.89		-0.17	0.06	-10199.00	
58015	M				38.09		1.9196		1.790				9507.29
		1.602	-0.11	-0.41		1399.47		1374.16		-0.18	0.05	1374.03	
36184	M				38.10		1.9201		1.781				10881.32
		1.772	-0.27	0.55		-3901.07		-3830.54		-0.14	0.06	-3830.62	
36185	M				38.11		1.9209		1.774				7050.71
		1.574	0.43	0.28		6950.82		6825.16		-0.10	0.05	6825.11	
36186	K				38.13		1.9195		1.769				13875.82
		1.630	-0.25	-0.17		515.90		506.57		-0.13	0.05	506.49	
36187	K				38.14		1.9198		1.762				14382.31
		1.176	-0.25	0.06		-9344.25		-9175.31		0.07	0.04	-9175.20	
80103	K				38.17		1.9225		1.766				5207.11
		1.872	0.08	-0.26		2075.40		2037.88		-0.34	0.06	2037.60	
428O	K				38.13		1.9220		1.749				7244.70
		1.239	-0.41	-1.13		-5448.44		-5349.94		-0.08	0.00	-5350.02	
36189	K				38.10		1.9220		1.744				1894.68
		22.833	-0.15	-1.31		-8356.79		-8205.76		-0.96	0.70	-8206.02	

16 A SIMOLA-JÄNHIÄLÄ 1983.30

80130	K				39.60		1.9323		1.723				54692.64
		0.166	0.34	-0.05		1693.63		1663.03		-0.03	-0.21	1662.79	
80206	K				39.59		1.9319		1.721				56355.45
		1.300	-0.15	-0.30		-3630.59		-3565.00		0.18	-0.05	-3564.87	
2562	K				39.64		1.9349		1.732				52790.58
		0.012	-0.02	0.06		2036.90		2000.10		0.00	0.00	2000.10	
65013	K				39.64		1.9345		1.732				54790.67
		1.188	-0.07	1.36		2180.70		2141.31		0.13	-0.05	2141.39	
2563	K				39.68		1.9356		1.740				56932.07
		1.444	-0.18	0.92		10016.28		9835.34		0.22	-0.06	9835.50	
2564	K				39.74		1.9352		1.753				66767.56
		2.086	-0.05	-0.36		544.04		534.22		0.00	-0.08	534.14	
2565	K				39.79		1.9411		1.753				67301.70
		2.802	0.37	0.46		-1252.51		-1229.89		0.31	-0.11	-1229.69	
2566	K				39.90		1.9465		1.772				66071.99
		1.150	0.09	-0.54		-6135.58		-6024.82		0.15	-0.05	-6024.72	
2567	K				39.94		1.9497		1.781				60047.28
		2.432	0.01	-0.51		5339.50		5243.14		0.34	-0.10	5243.38	
2568	K				40.03		1.9513		1.801				65290.66
		1.424	-0.15	1.19		8470.05		8317.17		0.19	-0.06	8317.30	
2569	K				40.09		1.9493		1.813				73607.95
		1.406	-0.51	-0.10		8930.33		8769.13		0.15	-0.06	8769.22	
59036	K				40.14		1.9493		1.821				82377.18
		1.878	-0.01	-0.26		371.95		365.23		0.02	-0.08	365.17	
38190	S				40.19		1.9515		1.823				82742.35
		2.200	0.13	0.86		18011.43		17686.35		-0.13	-0.09	17686.13	
72006	K				40.23		1.9507		1.815				100428.48
		2.504	0.21	1.05		2616.68		2569.46		-0.05	-0.10	2569.31	
38192	K				40.29		1.9542		1.812				102997.79
		1.944	0.08	-0.25		-753.08		-739.49		-0.14	-0.08	-739.71	
AP0202	P				40.32		1.9561		1.804				102258.09
		0.100	0.03	-0.02		-10435.43		-10247.15		0.00	0.00	-10247.15	
65024	M				40.32		1.9581		1.804				92010.93
		2.530	0.09	0.49		9071.94		8908.25		-0.17	-0.10	8907.98	
83201	M				40.36		1.9555		1.793				100918.91
		2.010	0.09	-0.01		1724.46		1693.34		-0.12	-0.08	1693.14	
38195	M				40.40		1.9574		1.786				102612.06

1	2	3	4	5	6	7	8	9	10	11	12	13	14
38195	M				40.40		1.9574		1.786				102612.06
		2.542	-0.01	-0.09		1835.07		1801.96		-0.22	-0.10	1801.64	
59037	M				40.43		1.9599		1.773				104413.69
		4.246	0.12	0.78		2223.34		2183.23		-0.30	-0.17	2182.76	
83202	P				40.50		1.9629		1.755				106596.45
		1.314	-0.17	0.68		-8327.87		-8177.67		-0.08	-0.05	-8177.80	
38198	M				40.52		1.9661		1.751				98418.66
		1.430	0.20	0.42		1777.75		1745.70		-0.09	-0.06	1745.55	
38199	M				40.55		1.9674		1.745				100164.20
		3.392	0.35	-0.28		7920.71		7777.89		-0.18	-0.14	7777.57	
38200	K				40.61		1.9678		1.734				107941.77
		41.500	0.79	5.50		54229.71		53250.80		0.18	-1.88	53249.10	

16 B JÄNHIÄLÄ-IMATRA 1983.38

38200	K				40.61		1.9678		1.734				107941.77
		1.758	-0.03	-2.94		-5329.17		-5233.07		-0.14	-0.07	-5233.28	
83203	S				40.63		1.9681		1.725				102708.49
		2.010	0.15	0.50		-3994.96		-3922.93		-0.08	-0.08	-3923.09	
38202	M				40.67		1.9691		1.721				98785.40
		2.822	0.23	-0.62		2521.95		2476.47		0.00	-0.11	2476.36	
83204	P				40.75		1.9657		1.720				101261.75
		2.316	-0.15	0.27		-12975.16		-12741.18		-0.09	-0.09	-12741.36	
2591	M				40.79		1.9692		1.715				88520.40
		1.354	-0.10	-0.49		-947.52		-930.43		-0.10	-0.05	-930.58	
38204	M				40.81		1.9725		1.709				87589.80
		2.452	-0.19	-1.16		-9654.74		-9480.72		-0.17	-0.10	-9480.99	
38205	K				40.84		1.9772		1.699				78108.81
		12.712	-0.09	-4.44		-30379.61		-29831.86		-0.58	-0.50	-29832.94	

18.1 TURKU-MYNÄMÄKI 1981.44

254	K				37.75		1.9480		3.863				17600.51
		2.548	-0.77	1.56		-6061.19		-5951.77		-0.33	-0.09	-5952.19	
37029	K				37.67		1.9466		3.845				11648.32
		1.652	-0.15	-0.61		9834.26		9656.71		0.06	-0.07	9656.70	
454	K				37.64		1.9443		3.848				21305.02
		1.646	-0.13	-1.00		-3318.13		-3258.22		0.26	0.53	-3257.43	
81103	K				37.67		1.9446		3.862				18047.60
		1.644	-0.13	-0.61		-2618.89		-2571.61		0.36	0.53	-2570.72	
81101	K				37.70		1.9449		3.882				15476.88
		1.730	0.12	0.50		6066.45		5956.92		0.38	0.24	5957.54	
1634	K				37.72		1.9437		3.902				21434.43
		1.238	-0.10	-0.13		-6172.52		-6061.07		0.30	-0.05	-6060.82	
1635	K				37.75		1.9446		3.918				15373.61
		2.086	0.33	-0.64		8624.66		8468.93		0.48	-0.06	8469.35	
1636	K				37.81		1.9431		3.944				23842.96
		1.898	-0.12	-0.41		138.56		136.06		0.48	-0.06	136.48	
51001	K				37.86		1.9429		3.970				23979.44
		2.050	0.70	-0.41		11427.80		11221.44		0.50	-0.06	11221.88	
51002	K				37.93		1.9420		3.997				35201.31
		1.778	-0.04	1.34		-336.41		-330.34		0.41	-0.05	-329.98	
51003	K				37.99		1.9414		4.019				34871.34
		1.876	-0.17	-0.23		-7721.84		-7582.40		0.42	-0.06	-7582.04	
51004	K				38.07		1.9431		4.042				27289.30
		1.254	-0.08	0.31		-6887.47		-6763.11		0.33	-0.04	-6762.82	
1641	K				38.10		1.9446		4.060				20526.47
		2.432	-0.26	-0.07		-10970.92		-10772.85		0.55	-0.08	-10772.38	
51005	K				38.19		1.9461		4.089				9754.11
		2.318	0.36	0.41		11318.23		11113.88		0.53	-0.07	11114.34	
81102	K				38.26		1.9442		4.118				20868.44
		1.366	-0.13	-0.39		-1310.34		-1286.68		0.38	-0.04	-1286.34	
1644	K				38.30		1.9446		4.139				19582.09
		2.006	0.08	-0.42		8876.54		8716.25		0.56	-0.06	8716.75	
51006	K				38.36		1.9411		4.169				28298.85

1	2	3	4	5	6	7	8	9	10	11	12	13	14
51006	K				38.36		1.9411		4.169				28298.85
		1.906	0.33	-1.09		18090.32		17763.59		0.54	-0.06	17764.07	
59020	K				38.42		1.9367		4.198				46062.92
		1.830	1.11	-0.75		7535.05		7398.93		0.48	-0.06	7399.35	
51007	K				38.47		1.9334		4.224				53462.27
		1.590	-0.36	0.13		-24297.01		-23858.08		0.42	-0.05	-23857.71	
51008	K				38.52		1.9358		4.247				29604.56
		34.848	0.59	-2.51		12217.15		11996.59		7.11	0.34	12004.04	

18.2 A MYNÄMÄKI-LAITILA 1981.65

51008	K				38.52		1.9358		4.247				29604.56
		0.021	0.01	-0.12		742.83		729.41		-0.01	-0.01	729.39	
81106A	K				38.52		1.9357		4.246				30333.95
		1.682	-0.33	0.00		-18928.12		-18586.22		0.45	-0.54	-18586.31	
1649	M				38.58		1.9379		4.271				11747.65
		2.302	0.05	0.68		11644.80		11434.47		0.57	-0.07	11434.97	
KP5	M				38.64		1.9362		4.302				23182.62
		2.026	0.13	-0.56		14520.78		14258.46		0.56	-0.06	14258.96	
51009	K				38.71		1.9334		4.332				37441.57
		3.108	-0.05	-0.85		1987.62		1951.71		0.91	-0.10	1952.52	
51010	M				38.81		1.9308		4.382				39394.10
		2.141	-0.06	-0.22		-7277.80		-7146.32		0.63	-0.07	-7145.76	
1653	K				38.87		1.9361		4.417				32248.34
		2.084	0.66	0.43		12330.23		12107.51		0.59	-0.06	12108.04	
1654	K				38.94		1.9385		4.449				44356.38
		1.868	0.02	0.78		-4845.76		-4758.24		0.52	0.19	-4757.53	
1655	K				38.98		1.9413		4.477				39598.85
		2.214	0.18	-0.28		1206.33		1184.54		0.65	-0.07	1185.12	
51011	M				39.04		1.9413		4.513				40783.97
		1.858	0.12	0.57		518.71		509.35		0.56	-0.06	509.85	
1657	K				39.10		1.9421		4.543				41293.83
		1.918	0.06	-0.66		3490.54		3427.50		0.53	-0.06	3427.97	
51012	K				39.16		1.9415		4.572				44721.80
		2.026	-0.06	-2.04		283.94		278.81		0.58	-0.06	279.33	
51013	K				39.24		1.9418		4.603				45001.13
		1.434	-0.51	-0.16		-24035.75		-23601.77		0.39	-0.04	-23601.42	
1660	K				39.28		1.9462		4.624				21399.70
		1.922	0.01	-0.99		-1543.13		-1515.27		0.50	-0.47	-1515.24	
51014	M				39.32		1.9470		4.651				19884.46
		1.692	0.65	0.56		3839.79		3770.47		0.47	0.17	3771.11	
1662	K				39.35		1.9471		4.677				23655.57
		28.296	0.88	-2.86		-6064.99		-5955.58		7.90	-1.31	-5948.99	

18.2 B LAITILA-RAUMA 1981.70

1662	K				39.35		1.9471		4.677				23655.57
		2.478	0.02	-0.26		461.27		452.95		0.72	-0.61	453.06	
7	K				39.42		1.9487		4.716				24108.64
		1.910	-0.36	-0.26		-9192.74		-9026.81		0.52	-0.57	-9026.86	
81106	K				39.45		1.9513		4.744				15081.77
		1.464	-0.05	-0.07		-574.29		-563.93		0.18	-0.07	-563.82	
22	K				39.50		1.9515		4.754				14517.95
		1.794	0.36	-0.27		5431.43		5333.41		0.52	0.15	5334.08	
1666	K				39.56		1.9520		4.783				19852.03
		1.900	0.17	1.01		-265.17		-260.39		0.31	-0.06	-260.14	
59021	K				39.62		1.9522		4.800				19591.90
		1.372	0.23	-0.42		2120.47		2082.20		0.30	-0.04	2082.46	
1668	K				39.64		1.9530		4.816				21674.36
		1.846	0.92	0.67		2714.68		2665.69		0.48	-0.06	2666.11	
1669	K				39.69		1.9539		4.842				24340.47
		1.722	0.14	-0.67		-1147.61		-1126.90		0.44	-0.05	-1126.51	
51217	K				39.72		1.9573		4.866				23213.97
		2.596	0.13	-0.25		2532.75		2487.05		0.72	-0.08	2487.69	
51218	K				39.79		1.9602		4.906				25701.66

1	2	3	4	5	6	7	8	9	10	11	12	13	14
51218	K				39.79		1.9602		4.906				25701.66
		0.672	0.11	-1.03		4234.67		4158.27		0.17	-0.02	4158.42	
542701	K				39.81		1.9596		4.915				29860.08
		1.060	-0.82	0.14		-12849.69		-12617.89		0.27	-0.03	-12617.65	
51219	K				39.85		1.9623		4.930				17242.43
		1.892	0.11	-0.94		7700.51		7561.60		0.45	-0.06	7561.99	
1673	K				39.92		1.9615		4.954				24804.42
		1.142	0.06	0.90		-1931.93		-1897.09		0.28	-0.04	-1896.85	
1674	K				39.96		1.9642		4.969				22907.58
		2.016	0.00	-1.11		1287.17		1263.95		0.52	-0.06	1264.41	
1675	K				40.02		1.9659		4.998				24171.98
		1.486	-0.25	0.19		-6564.00		-6445.63		0.39	-0.05	-6445.29	
51220	K				40.08		1.9673		5.019				17726.71
		1.462	-0.01	0.54		-2929.98		-2877.15		0.35	-0.05	-2876.85	
1677	K				40.12		1.9688		5.038				14849.86
		1.918	-0.16	-0.23		3243.07		3184.60		0.51	-0.06	3185.05	
1678	K				40.18		1.9704		5.066				18034.91
		1.998	0.16	-0.69		-259.80		-255.12		0.52	-0.06	-254.66	
51221	K				40.25		1.9733		5.095				17780.24
		1.360	0.06	0.40		1842.67		1809.46		0.31	-0.04	1809.73	
51222	K				40.29		1.9737		5.111				19589.97
		0.126	-0.11	-0.12		-2908.10		-2855.68		0.03	0.00	-2855.65	
1680	K				40.30		1.9734		5.113				16734.31
		1.632	0.00	0.05		-1658.06		-1628.17		0.38	-0.05	-1627.84	
51223	K				40.36		1.9754		5.134				15106.47
		1.834	-0.07	-0.38		-4097.84		-4023.98		0.40	-0.06	-4023.64	
51224	K				40.42		1.9781		5.156				11082.85
		1.430	-0.04	-0.07		-7124.89		-6996.49		0.25	-0.04	-6996.28	
81109	K				40.47		1.9796		5.170				4086.56
		0.146	0.04	-0.05		2369.46		2326.77		0.02	0.00	2326.79	
51225	K				40.47		1.9792		5.170				6413.35
		1.268	0.13	-0.41		5371.16		5274.37		0.18	-0.04	5274.51	
81108	K				40.51		1.9785		5.180				11687.86
		1.858	-0.24	-0.35		-9359.46		-9190.80		0.33	-0.06	-9190.53	
81107	K				40.56		1.9823		5.198				2497.33
		0.205	-0.01	-0.03		2160.30		2121.38		0.01	0.00	2121.39	
51226	K				40.55		1.9819		5.198				4618.73
		40.587	0.52	-3.71		-19393.92		-19044.29		9.56	-2.11	-19036.84	

19.1 PEIPOHJA-EURAJOKI 1981.70

1596	K				41.05		1.9643		4.966				39965.55
		1.243	-0.01	-0.35		1415.83		1390.29		0.29	0.93	1391.51	
51301	K				41.06		1.9633		4.982				41357.06
		1.823	0.04	0.57		-1981.54		-1945.80		0.39	0.41	-1945.00	
81211	P				41.08		1.9631		5.003				39412.06
		1.295	0.18	0.74		3682.31		3615.89		0.02	0.29	3616.20	
1819	M				41.05		1.9593		5.004				43028.26
		2.257	-0.13	-0.33		6000.97		5892.69		0.08	0.51	5893.28	
51302	M				41.00		1.9546		5.009				48921.54
		1.439	-0.01	0.62		-3894.33		-3824.06		0.09	0.32	-3823.65	
1821	R				40.98		1.9528		5.014				45097.90
		2.249	-0.19	1.88		-13149.94		-12912.64		0.19	0.51	-12911.94	
57014	S				40.95		1.9550		5.024				32185.95
		1.986	0.05	0.49		2747.63		2698.05		0.17	0.45	2698.67	
57015	M				40.92		1.9547		5.033				34884.62
		1.128	-0.06	0.39		651.62		639.86		0.01	0.25	640.12	
51303	M				40.89		1.9544		5.034				35524.75
		1.742	-0.23	0.60		-5223.68		-5129.42		0.23	0.39	-5128.80	
81212	S				40.88		1.9559		5.046				30395.95
		1.840	0.09	1.23		3138.53		3081.90		0.26	0.42	3082.58	
1825	M				40.87		1.9565		5.060				33478.53
		2.032	-0.24	-0.10		4162.72		4087.61		0.28	0.46	4088.35	
1826	M				40.86		1.9559		5.075				37566.87
		2.307	-0.49	1.34		-9342.14		-9173.58		0.31	0.52	-9172.75	
51305	M				40.85		1.9577		5.092				28394.13

1	2	3	4	5	6	7	8	9	10	11	12	13	14
51305	M				40.85		1.9577		5.092				28394.13
		1.544	0.57	2.30		-6916.55		-6791.76		0.27	0.35	-6791.14	
81213	R				40.85		1.9592		5.107				21602.98
		2.314	-0.22	-0.46		6866.01		6742.14		0.37	0.52	6743.03	
51306	K				40.85		1.9578		5.127				28346.02
		2.318	-0.08	-0.31		-5623.86		-5522.39		0.04	0.52	-5521.83	
81214	P				40.81		1.9582		5.130				22824.19
		1.521	0.44	-0.55		6879.55		6755.43		0.13	0.34	6755.90	
51307	M				40.80		1.9574		5.137				29580.08
		2.061	-0.43	-1.19		-6875.53		-6751.50		0.26	0.47	-6750.77	
81003	K				40.79		1.9621		5.151				22829.31
		2.288	-0.08	0.86		-1691.14		-1660.64		0.27	0.52	-1659.85	
1833	K				40.78		1.9639		5.166				21169.46
		33.387	-0.80	7.73		-19153.55		-18807.94		3.66	8.18	-18796.10	

19.2 EURAJOKI-LAPIJOKI 1981.72

1833	K				40.78		1.9639		5.166				21169.46
		1.132	0.05	0.15		1162.74		1141.77		0.15	0.47	1142.39	
51308	K				40.78		1.9634		5.174				22311.85
		1.407	0.12	-0.68		5798.72		5694.13		0.02	-0.14	5694.01	
51309	K				40.75		1.9629		5.176				28005.86
		1.713	-0.17	0.06		-9837.35		-9659.94		-0.03	0.29	-9659.68	
51310	K				40.71		1.9686		5.174				18346.17
		4.252	0.00	-0.47		-2875.89		-2824.05		0.14	0.62	-2823.29	

19.3 LAPIJOKI-RAUMA 1981.73

51310	K				40.71		1.9686		5.174				18346.17
		1.895	-0.14	0.28		-3472.23		-3409.62		-0.02	0.06	-3409.58	
1689	M				40.67		1.9694		5.173				14936.59
		1.512	0.07	0.36		1130.58		1110.20		0.10	0.05	1110.35	
51311	M				40.66		1.9710		5.179				16046.93
		1.350	0.11	-0.44		3370.95		3310.18		0.11	0.04	3310.33	
1688	M				40.64		1.9740		5.185				19357.27
		2.055	-0.09	0.44		-5841.17		-5735.90		0.14	0.06	-5735.70	
1687	K				40.62		1.9779		5.193				13621.57
		0.970	0.04	0.02		163.46		160.52		0.00	0.03	160.55	
55001	K				40.60		1.9777		5.192				13782.12
		1.394	-0.04	0.14		-1091.37		-1071.70		0.01	0.04	-1071.65	
1686	K				40.57		1.9793		5.193				12710.47
		1.096	-0.24	-0.57		-9421.99		-9252.21		0.08	0.03	-9252.10	
51314	K				40.56		1.9820		5.197				3458.38
		0.170	0.01	-0.67		497.67		488.70		0.01	0.01	488.72	
51313	K				40.56		1.9819		5.197				3947.09
		0.278	-0.03	0.30		-1476.38		-1449.78		0.01	0.01	-1449.76	
81107	K				40.56		1.9823		5.198				2497.33
		0.205	-0.01	-0.03		2160.30		2121.38		0.01	0.00	2121.39	
51226	K				40.55		1.9819		5.198				4618.73
		10.925	-0.32	-0.17		-13980.18		-13728.22		0.45	0.33	-13727.44	

20.1 TAMPERE-LIELAHTI 1981.44

64084	K				42.14		1.9944		4.507				97709.52
		0.029	0.00	-0.08		-173.12		-170.00		0.01	0.00	-169.99	
81203	K				42.14		1.9944		4.508				97539.53
		0.721	-0.05	-0.01		2977.70		2924.08		0.17	-0.04	2924.21	
60019	K				42.15		1.9928		4.517				100463.74
		0.626	-0.06	0.43		2484.13		2439.39		0.05	-0.03	2439.41	
58080	K				42.14		1.9915		4.520				102903.15
		0.819	0.12	-0.57		4805.26		4718.73		0.05	-0.04	4718.74	
1539	K				42.13		1.9907		4.522				107621.89
		2.625	0.55	0.00		3195.58		3138.03		0.63	-0.14	3138.52	
630	P				42.16		1.9879		4.556				110760.41

1	2	3	4	5	6	7	8	9	10	11	12	13	14
630	P				42.16		1.9879		4.556				110760.41
		1.654	0.07	0.62		-4349.68		-4271.33		0.26	-0.09	-4271.16	
TKP620	M				42.16		1.9883		4.571				106489.25
		1.961	1.39	-0.88		15892.70		15606.41		0.20	-0.10	15606.51	
81204	K				42.14		1.9848		4.581				122095.76
		0.036	-0.05	0.11		-3457.12		-3394.84		0.00	0.00	-3394.84	
TKP710	K				42.14		1.9855		4.581				118700.92
		8.471	1.97	-0.38		21375.45		20990.47		1.37	-0.44	20991.40	

20.2 A LIELAHTI-SIURO 1981.44

TKP710	K				42.14		1.9855		4.581				118700.92
		0.036	0.05	0.11		3457.12		3394.84		0.00	0.00	3394.84	
81204	K				42.14		1.9848		4.581				122095.76
		1.072	0.19	-0.31		5954.05		5846.78		0.16	0.09	5847.03	
79008	K				42.13		1.9832		4.590				127942.80
		0.504	-0.30	0.42		-5947.06		-5839.92		0.07	0.04	-5839.81	
79007	K				42.13		1.9840		4.594				122103.00
		1.296	-0.38	-0.71		-7961.32		-7817.90		0.13	0.11	-7817.66	
1544A	M				42.12		1.9852		4.601				114285.34
		1.290	-0.03	-0.67		2413.48		2370.00		0.08	0.11	2370.19	
67001	M				42.10		1.9850		4.606				116655.55
		1.377	-0.04	-0.43		-614.97		-603.89		0.20	0.12	-603.57	
81205	K				42.09		1.9853		4.616				116051.97
		2.413	-0.75	-0.19		-10029.53		-9848.85		0.04	0.21	-9848.60	
57008	S				42.04		1.9863		4.618				106203.37
		2.876	0.20	-1.09		580.52		570.06		0.09	0.25	570.40	
TKP84	K				41.98		1.9864		4.623				106773.78
		2.032	-0.37	0.33		-14526.47		-14264.82		0.34	0.18	-14264.30	
86	K				41.98		1.9893		4.642				92509.48
		0.788	-0.14	-0.30		-7589.58		-7452.90		0.16	0.07	-7452.67	
87	K				41.98		1.9908		4.650				85056.80
		0.870	-0.15	-0.39		-7010.27		-6884.03		0.21	0.08	-6883.74	
88	K				41.99		1.9923		4.662				78173.06
		1.010	-0.01	0.24		-6156.97		-6046.10		0.22	0.09	-6045.79	
61003	K				41.99		1.9932		4.674				72127.28
		2.024	-0.24	-1.57		-11023.09		-10824.61		0.48	0.18	-10823.95	
62007	M				42.01		1.9953		4.699				61303.33
		1.446	-0.01	-0.63		398.21		391.04		0.26	0.13	391.43	
1554	K				42.01		1.9956		4.713				61694.76
		2.676	-0.12	0.21		1348.62		1324.34		0.50	0.24	1325.08	
59003	K				42.01		1.9949		4.740				63019.83
		21.710	-2.10	-4.98		-56707.24		-55685.94		2.94	1.90	-55681.10	

20.2 B SIURO-KAUVATSA 1981.63

59003	K				42.01		1.9949		4.740				63019.83
		0.025	-0.01	0.04		-980.07		-962.42		0.01	0.00	-962.41	
81206	K				42.01		1.9954		4.741				62057.43
		1.475	-0.02	0.01		-186.57		-183.22		0.18	0.13	-182.91	
59004	K				42.00		1.9959		4.751				61874.52
		1.788	0.28	1.22		2934.57		2881.73		0.13	0.16	2882.02	
81207	P				41.97		1.9946		4.758				64756.53
		1.422	-0.16	0.21		6204.51		6092.79		0.05	0.13	6092.97	
1558	M				41.94		1.9926		4.760				70849.50
		0.501	0.02	-0.11		4778.85		4692.80		0.06	0.04	4692.90	
81208	K				41.93		1.9916		4.764				75542.40
		2.010	1.05	-0.47		12278.53		12057.39		0.53	0.18	12058.10	
65011	M				41.96		1.9882		4.793				87600.50
		1.171	-0.03	-0.60		2196.52		2156.95		0.19	0.10	2157.24	
1560	K				41.96		1.9867		4.803				89757.74
		2.542	-0.41	-0.20		-26871.08		-26387.12		0.38	0.22	-26386.52	
51102	K				41.94		1.9921		4.824				63371.23
		1.860	0.17	0.65		-1212.33		-1190.51		-0.11	0.16	-1190.46	
1562	K				41.89		1.9919		4.818				62180.77

1	2	3	4	5	6	7	8	9	10	11	12	13	14
1562	K				41.89		1.9919		4.818				62180.77
		0.036	0.00	0.11		2192.75		2153.27		0.00	0.00	2153.27	
62035	K				41.89		1.9915		4.818				64334.05
		1.470	0.17	-1.24		-140.51		-137.97		-0.10	0.13	-137.94	
51103	M				41.85		1.9903		4.813				64196.11
		1.701	0.28	1.16		8035.37		7890.65		-0.19	0.15	7890.61	
51104	K				41.79		1.9889		4.802				72086.72
		1.568	0.18	0.64		2220.53		2180.53		-0.01	0.14	2180.66	
1565	K				41.76		1.9879		4.801				74267.37
		1.734	0.02	1.46		-3943.09		-3872.06		0.03	0.15	-3871.88	
AP0104	P				41.72		1.9885		4.803				70395.50
		2.569	0.33	-0.12		5712.32		5609.44		-0.47	0.23	5609.20	
63003	M				41.63		1.9884		4.778				76004.70
		1.790	0.05	0.92		-5039.26		-4948.50		-0.16	0.16	-4948.50	
51106	K				41.57		1.9908		4.769				71056.20
		1.585	0.08	1.83		-2578.56		-2532.13		0.02	0.14	-2531.97	
1570	K				41.54		1.9917		4.770				68524.23
		2.508	0.39	0.27		-3591.26		-3526.59		0.10	0.22	-3526.27	
59008	P				41.48		1.9909		4.775				64997.96
		0.584	0.03	-0.02		-1051.42		-1032.49		0.11	0.05	-1032.33	
1572	M				41.48		1.9920		4.781				63965.63
		1.832	-0.03	-0.18		-5745.03		-5641.58		0.34	0.16	-5641.08	
1573	S				41.48		1.9944		4.800				58324.55
		1.379	0.28	0.77		10556.72		10366.63		0.17	0.12	10366.92	
1574	M				41.47		1.9932		4.809				68691.47
		1.549	-0.35	0.28		-11422.73		-11217.05		-0.15	0.14	-11217.06	
1575	M				41.42		1.9945		4.801				57474.41
		2.028	-0.07	0.21		-1719.16		-1688.21		-0.05	0.18	-1688.08	
1576	K				41.36		1.9927		4.798				55786.34
		1.260	0.01	0.22		1356.15		1331.72		0.04	0.11	1331.87	
81209	M				41.33		1.9915		4.800				57118.21
		1.702	-0.11	-0.54		3732.63		3665.41		0.19	0.15	3665.75	
1578	M				41.31		1.9904		4.810				60783.96
		1.746	-0.04	1.28		-244.24		-239.84		-0.06	0.15	-239.75	
59009	M				41.26		1.9881		4.807				60544.21
		1.070	-0.17	-0.44		-3437.28		-3375.36		0.14	0.09	-3375.13	
57009	M				41.25		1.9874		4.815				57169.09
		2.168	0.09	0.28		13949.87		13698.59		0.31	0.19	13699.09	
1581	K				41.23		1.9858		4.831				70868.18
		1.804	0.20	0.94		11950.15		11734.87		0.44	0.16	11735.47	
1582	K				41.25		1.9837		4.855				82603.65
		1.205	-0.12	0.47		-7314.68		-7182.90		0.34	0.11	-7182.45	
1583	K				41.27		1.9845		4.873				75421.20
		46.082	2.11	9.05		12622.21		12394.83		2.46	4.05	12401.34	

20.2 C KAUVATSA-PEIPOHJA 1981.68

1583	K				41.27		1.9845		4.873				75421.20
		1.770	0.29	1.43		-15939.91		-15652.75		0.42	0.16	-15652.17	
1584	K				41.28		1.9854		4.896				59769.02
		1.492	0.06	1.17		-7938.09		-7795.09		0.40	0.13	-7794.56	
57011	M				41.31		1.9851		4.918				51974.47
		2.170	0.03	0.11		-5920.95		-5814.28		0.27	0.19	-5813.82	
57012	K				41.28		1.9817		4.933				46160.65
		1.586	0.35	-0.33		7970.05		7826.44		-0.09	0.14	7826.49	
51108	K				41.24		1.9790		4.928				53987.13
		1.392	-0.51	-0.14		-7087.20		-6959.47		0.02	0.12	-6959.33	
1588	M				41.20		1.9766		4.929				47027.81
		2.102	0.00	-1.31		1388.73		1363.70		0.31	0.19	1364.20	
1589	K				41.19		1.9754		4.946				48392.01
		1.843	-0.07	-1.12		418.23		410.70		-0.25	0.16	410.61	
1590	K				41.14		1.9737		4.932				48802.62
		1.145	-0.10	0.05		5555.61		5455.46		-0.05	0.10	5455.51	
1592	K				41.11		1.9715		4.930				54258.13
		1.453	-0.07	-0.05		1535.83		1508.14		0.32	0.13	1508.59	
1593	K				41.12		1.9709		4.947				55766.72

1	2	3	4	5	6	7	8	9	10	11	12	13	14
1593	K				41.12		1.9709		4.947				55766.72
		1.718	-0.20	0.50		-12322.37		-12100.21		-0.16	0.15	-12100.22	
63002	M				41.07		1.9702		4.939				43666.50
		1.488	0.00	-0.60		-6348.11		-6233.65		0.21	0.13	-6233.31	
1595	M				41.06		1.9685		4.950				37433.19
		1.743	0.00	-0.26		3453.88		3391.59		0.29	0.15	3392.03	
81210	K				41.05		1.9642		4.966				40825.23
		0.042	-0.01	-0.29		-875.47		-859.68		0.00	0.00	-859.68	
1596	K				41.05		1.9643		4.966				39965.55
		19.944	-0.23	-0.84		-36109.77		-35459.10		1.69	1.75	-35455.66	

21 A TOIJALA-PELTOLAMMI 1981.39

184	K				40.56		1.9677		3.967				101959.38
		1.874	0.24	-0.96		-15224.74		-14950.23		-0.02	-1.04	-14951.29	
183	M				40.60		1.9724		3.966				87008.09
		2.682	0.09	-0.96		383.81		376.89		-0.14	-1.96	374.79	
80210	M				40.64		1.9754		3.958				87382.87
		3.876	0.23	0.31		-150.85		-148.13		0.24	0.05	-147.84	
36012	P				40.71		1.9771		3.971				87235.03
		0.962	0.32	-0.54		5636.97		5535.38		0.25	0.01	5535.64	
53145	M				40.73		1.9767		3.984				92770.67
		2.046	-0.10	-0.46		926.74		910.04		0.52	0.03	910.59	
940	M				40.77		1.9765		4.012				93681.26
		2.020	0.06	0.68		-1282.80		-1259.68		0.54	0.03	-1259.11	
50001	M				40.82		1.9774		4.041				92422.16
		1.994	0.46	-0.04		-4345.96		-4267.64		0.57	0.03	-4267.04	
62041	M				40.88		1.9796		4.072				88155.11
		1.118	-0.17	-0.21		-3904.34		-3833.99		0.31	0.01	-3833.67	
6	M				40.92		1.9809		4.088				84321.44
		0.704	-0.04	0.55		-3703.40		-3636.67		0.20	0.01	-3636.46	
943A	M				40.95		1.9819		4.099				80684.98
		2.470	0.54	-0.06		11151.06		10950.14		0.58	0.03	10950.75	
62042	M				41.04		1.9808		4.130				91635.73
		1.641	-0.10	-0.50		-5221.35		-5127.27		0.43	0.02	-5126.82	
39001	M				41.10		1.9825		4.153				86508.92
		1.687	0.06	-0.26		-2423.53		-2379.86		0.47	0.02	-2379.37	
946A	M				41.17		1.9838		4.178				84129.54
		1.086	0.14	0.37		-116.97		-114.87		0.30	0.01	-114.56	
50002	M				41.21		1.9841		4.195				84014.98
		1.338	0.04	0.42		951.78		934.63		0.33	0.02	934.98	
50003	M				41.26		1.9848		4.212				84949.96
		1.338	0.59	-0.29		5821.77		5716.89		0.28	0.02	5717.19	
62005	M				41.31		1.9843		4.227				90667.14
		0.614	0.09	0.00		394.96		387.84		0.14	0.01	387.99	
79009	P				41.33		1.9843		4.235				91055.13
		2.230	0.08	0.66		-4767.43		-4681.55		0.46	0.03	-4681.06	
953A	M				41.41		1.9872		4.259				86374.07
		1.706	0.08	0.15		1896.12		1861.96		0.41	0.02	1862.39	
954	M				41.48		1.9872		4.282				88236.45
		0.038	0.00	0.25		-1313.15		-1289.50		0.01	0.00	-1289.49	
72007	P				41.48		1.9875		4.282				86946.96
		2.347	0.17	0.07		2234.89		2194.63		0.59	0.03	2195.25	
39002	M				41.57		1.9890		4.313				89142.21
		1.716	1.94	1.25		16968.22		16662.58		0.45	0.02	16663.05	
39003	M				41.63		1.9853		4.337				105805.26
		2.099	-0.29	2.40		1967.47		1932.04		0.53	0.03	1932.60	
62044	M				41.71		1.9864		4.366				107737.86
		2.126	0.52	0.52		5322.48		5226.60		0.52	0.03	5227.15	
81201	K				41.78		1.9873		4.394				112965.01
		1.890	0.01	-0.22		-3620.82		-3555.61		0.54	0.02	-3555.05	
39006	M				41.85		1.9904		4.423				109409.96
		2.305	-0.77	-0.19		-17765.93		-17446.01		0.52	0.03	-17445.46	
961	K				41.93		1.9950		4.450				91964.50
		43.907	4.19	2.94		-10185.01		-10001.40		9.03	-2.49	-9994.86	

1	2	3	4	5	6	7	8	9	10	11	12	13	14
						21 B PELTOLAMMI-TAMPERE 1981.41							
961	K				41.93		1.9950		4.450				91964.50
		2.060	0.23	0.12		-1010.91		-992.71		0.23	0.03	-992.45	
81202	K				42.00		1.9955		4.463				90972.05
		2.229	-0.08	0.60		-3167.08		-3110.07		0.45	0.03	-3109.59	
39007	S				42.08		1.9964		4.487				87862.46
		0.813	0.02	-0.15		6025.43		5916.95		0.20	0.01	5917.16	
965C	P				42.11		1.9952		4.498				93779.62
		0.672	-0.01	0.37		4001.34		3929.30		0.17	0.45	3929.92	
64084	K				42.14		1.9944		4.507				97709.52
		5.774	0.16	0.94		5848.78		5743.47		1.05	0.52	5745.04	
						22 A PEIPOHJA-PORI 1987.71							
1596	K				41.05		1.9643		4.966				39965.55
		1.234	0.07	-0.46		1417.69		1392.12		0.20	-0.81	1391.51	
51301	K				41.06		1.9633		4.982				41357.06
		1.550	-0.07	0.15		-3834.10		-3764.95		0.28	-0.21	-3764.88	
AP0700	R				41.09		1.9648		5.005				37592.17
		1.358	-0.01	-1.63		-1226.53		-1204.41		0.25	-0.19	-1204.35	
51109	R				41.12		1.9633		5.026				36387.82
		2.042	0.09	0.44		198.62		195.05		0.38	-0.28	195.15	
57013	S				41.15		1.9633		5.056				36582.97
		1.180	0.26	-1.09		2255.81		2215.12		0.22	-0.16	2215.18	
1600	R				41.17		1.9646		5.074				38798.15
		2.450	-0.03	-2.27		3873.12		3803.27		0.47	-0.34	3803.40	
51110	R				41.24		1.9654		5.112				42601.54
		1.482	-0.13	-0.20		-4375.57		-4296.67		0.28	-0.20	-4296.59	
51111	R				41.27		1.9667		5.135				38304.96
		2.632	-0.16	2.48		-6713.21		-6592.16		0.49	-0.36	-6592.03	
51112	R				41.34		1.9695		5.175				31712.92
		1.688	0.03	1.27		-4404.02		-4324.62		0.32	-0.23	-4324.53	
51113	R				41.38		1.9700		5.201				27388.39
		2.256	-0.05	0.32		-1711.68		-1680.82		0.39	-0.31	-1680.74	
51114	M				41.43		1.9707		5.232				25707.65
		1.406	-0.56	-1.37		-5101.28		-5009.31		0.24	-0.19	-5009.26	
1606	M				41.45		1.9719		5.252				20698.40
		3.794	-0.19	2.44		-4600.51		-4517.58		0.66	-0.52	-4517.44	
1608	S				41.57		1.9760		5.305				16180.96
		1.966	0.13	0.44		2204.40		2164.67		0.27	-0.27	2164.67	
1609	M				41.62		1.9776		5.327				18345.63
		2.208	-0.05	2.17		-4376.87		-4297.99		0.38	-0.30	-4297.91	
87215	R				41.68		1.9799		5.358				14047.71
		2.662	-0.19	2.48		-4019.18		-3946.75		0.43	-0.37	-3946.69	
1612	R				41.75		1.9811		5.393				10101.02
		1.604	0.09	-1.36		-3077.59		-3022.14		0.25	-0.22	-3022.11	
1613	R				41.78		1.9820		5.413				7078.91
		1.824	0.03	-0.35		690.56		678.12		0.29	-0.25	678.16	
63030	S				41.83		1.9823		5.437				7757.07
		1.914	0.02	1.51		472.66		464.14		0.31	-0.26	464.19	
87214	M				41.88		1.9830		5.462				8221.26
		1.786	-0.05	2.10		1002.27		984.21		0.28	-0.25	984.24	
51116	M				41.93		1.9834		5.484				9205.51
		1.776	-0.02	0.92		2251.23		2210.67		0.28	-0.24	2210.71	
87213	S				41.99		1.9835		5.507				11416.20
		1.330	-0.15	0.09		-2013.93		-1977.65		0.20	-0.18	-1977.63	
PKP1	S				42.03		1.9843		5.524				9438.57
		1.008	-0.16	0.33		-3973.33		-3901.75		0.13	-0.14	-3901.76	
1617	P				42.06		1.9854		5.534				5536.81
		41.150	-1.10	8.41		-35061.44		-34429.43		7.00	-6.28	-34428.71	

1	2	3	4	5	6	7	8	9	10	11	12	13	14
						22 B PORI-RUOSNIEMI 1987.68							
1617	P				42.06		1.9854		5.534				5536.81
		0.120	0.00	-0.35		-120.34		-118.17		0.02	-0.02	-118.17	
87212	P				42.06		1.9857		5.536				5418.66
		1.084	-0.09	0.34		-619.84		-608.67		-0.01	-0.15	-608.83	
1714B	P				42.08		1.9862		5.535				4809.83
		0.550	-0.07	-0.70		-1673.64		-1643.49		0.01	0.36	-1643.12	
1715.1	P				42.09		1.9867		5.536				3166.70
		0.966	0.02	1.42		447.30		439.25		-0.04	0.63	439.84	
PKP59.1	S				42.10		1.9876		5.533				3606.54
		3.441	-0.13	2.15		2775.53		2725.55		-0.10	2.23	2727.68	
87211	K				42.15		1.9954		5.524				6334.22
		0.200	-0.05	0.27		-1777.73		-1745.72		-0.03	-0.77	-1746.52	
87210	K				42.15		1.9956		5.522				4587.70
		0.144	0.21	0.44		4758.04		4672.39		0.01	-0.72	4671.68	
51117	K				42.15		1.9950		5.522				9259.38
		6.505	-0.11	3.57		3789.33		3721.15		-0.14	1.56	3722.57	
						23 RUOSNIEMI-NOORMARKKU 1987.66							
51117	K				42.15		1.9950		5.522				9259.38
		1.114	-0.14	0.28		4305.06		4227.55		0.12	0.06	4227.73	
48	K				42.19		1.9970		5.532				13487.11
		1.724	-0.25	-0.71		14253.18		13996.57		0.15	0.10	13996.82	
51118	K				42.26		1.9958		5.545				27483.92
		2.112	0.00	0.34		433.89		426.09		0.11	0.12	426.32	
51119	K				42.32		1.9999		5.554				27910.24
		1.970	0.19	2.16		8434.52		8282.71		0.24	0.11	8283.06	
51120	K				42.39		2.0015		5.573				36193.31
		1.224	0.22	1.17		5754.14		5650.58		0.17	0.07	5650.82	
52225	K				42.44		2.0012		5.587				41844.12
		8.144	0.02	3.24		33180.80		32583.48		0.79	0.46	32584.73	
						24.1 A NOORMARKKU-POMARKKU 1987.76							
52225	K				42.44		2.0012		5.587				41844.12
		0.023	0.00	0.05		507.66		498.52		0.00	0.00	498.52	
87209	K				42.44		2.0011		5.587				42342.64
		0.922	-0.19	0.94		-6470.15		-6353.70		0.10	0.42	-6353.18	
51121	M				42.47		2.0026		5.596				35989.46
		1.596	0.00	-0.42		-1323.45		-1299.63		0.13	0.09	-1299.41	
51122	M				42.53		2.0034		5.606				34690.06
		2.262	0.02	0.88		1385.70		1360.76		0.11	0.13	1361.00	
51123	M				42.60		2.0055		5.615				36051.06
		1.986	0.01	-0.78		2190.30		2150.89		0.08	0.12	2151.09	
51124	M				42.66		2.0077		5.621				38202.15
		1.592	0.06	-0.17		7054.60		6927.68		0.05	0.09	6927.82	
50192	M				42.71		2.0096		5.626				45129.97
		1.460	0.12	-2.03		5854.91		5749.58		0.05	0.09	5749.72	
50191	M				42.76		2.0108		5.630				50879.69
		9.841	0.02	-1.53		9199.58		9034.10		0.52	0.94	9035.56	
						24.1 B POMARKKU-HONKAKOSKI 1987.62							
50191	M				42.76		2.0108		5.630				50879.69
		1.648	-0.02	0.40		1068.96		1049.73		0.10	0.10	1049.93	
50190	M				42.82		2.0120		5.638				51929.63
		2.146	-0.08	-1.93		-494.06		-485.17		0.06	0.13	-484.98	
50189	K				42.88		2.0146		5.643				51444.65
		1.600	0.10	2.36		1250.75		1228.25		-0.02	0.10	1228.33	
50188	K				42.92		2.0159		5.641				52672.97
		1.670	0.63	-0.74		-8184.71		-8037.53		0.05	0.10	-8037.38	
50187	M				42.97		2.0184		5.645				44635.59

1	2	3	4	5	6	7	8	9	10	11	12	13	14
50187	M				42.97		2.0184		5.645				44635.59
		1.920	0.36	-2.99		6656.03		6536.34		0.05	0.11	6536.50	
50186	K				43.03		2.0186		5.648				51172.09
		1.730	0.00	-0.09		2040.16		2003.47		0.07	0.10	2003.64	
50185	K				43.09		2.0195		5.654				53175.74
		1.578	-0.12	-2.31		1819.03		1786.32		0.03	0.09	1786.44	
50184	K				43.14		2.0204		5.657				54962.18
		1.620	0.20	-1.31		5616.16		5515.18		0.00	0.10	5515.28	
50183	K				43.18		2.0209		5.657				60477.46
		1.400	0.07	-0.03		4176.14		4101.06		-0.04	0.08	4101.10	
50182	K				43.21		2.0204		5.653				64578.56
		15.312	1.14	-6.64		13948.46		13697.66		0.30	0.91	13698.87	

24.1 C HONKAKOSKI-PARKANO 1987.41

50182	K				43.21		2.0204		5.653				64578.56
		0.443	0.10	-0.04		592.85		582.19		0.00	0.03	582.22	
87208	K				43.22		2.0203		5.653				65160.78
		1.834	0.37	0.36		13165.65		12928.92		-0.11	0.11	12928.92	
50181	K				43.25		2.0177		5.645				78089.70
		0.880	0.19	0.42		1779.91		1747.91		-0.05	0.05	1747.91	
87207	K				43.26		2.0172		5.641				79837.61
		1.302	0.09	-0.07		-1767.36		-1735.58		-0.06	0.08	-1735.56	
50180	K				43.28		2.0173		5.635				78102.04
		1.466	-0.36	-0.30		-5911.71		-5805.41		-0.03	0.09	-5805.35	
50179	K				43.32		2.0189		5.633				72296.69
		1.586	0.15	-1.91		14044.17		13791.63		-0.09	0.09	13791.63	
67017	K				43.34		2.0162		5.626				86088.32
		1.278	0.28	0.72		9192.35		9027.03		-0.05	0.08	9027.06	
67018	K				43.37		2.0144		5.622				95115.38
		1.614	-0.27	-0.96		-7540.20		-7404.59		-0.02	0.10	-7404.51	
50176	K				43.40		2.0162		5.621				87710.87
		2.472	0.11	-0.03		2568.71		2522.52		-0.18	0.15	2522.49	
50175	K				43.43		2.0185		5.607				90233.36
		1.766	-0.13	-0.95		-7320.48		-7188.86		-0.08	0.10	-7188.84	
87204	S				43.46		2.0220		5.600				83044.52
		1.006	0.06	0.29		2889.98		2838.03		-0.03	0.06	2838.06	
50174	K				43.48		2.0226		5.598				85882.58
		0.036	0.02	0.00		984.58		966.88		0.00	0.00	966.88	
87206	K				43.48		2.0224		5.598				86849.46
		1.660	0.15	0.59		8677.81		8521.81		-0.04	0.10	8521.87	
50173	K				43.51		2.0227		5.595				95371.33
		1.214	0.18	-1.09		4714.43		4629.70		-0.04	0.07	4629.73	
87205	M				43.54		2.0255		5.592				100001.05
		1.180	0.05	0.06		7769.65		7630.00		-0.04	0.07	7630.03	
50172	K				43.56		2.0256		5.589				107631.08
		1.916	0.08	0.89		11162.62		10961.92		-0.11	0.11	10961.92	
50171	P				43.59		2.0147		5.580				118593.00
		2.084	-0.06	1.15		-5706.70		-5604.05		-0.15	0.12	-5604.08	
50170	K				43.61		2.0089		5.568				112988.92
		1.892	-0.06	0.91		-5185.18		-5091.88		-0.11	0.11	-5091.88	
50169	S				43.63		2.0061		5.559				107897.05
		1.870	0.15	1.82		5015.45		4925.20		-0.15	0.11	4925.16	
50168	K				43.65		2.0039		5.547				112822.20
		1.710	0.11	0.99		-1526.43		-1498.96		-0.07	0.10	-1498.93	
50167	M				43.68		2.0061		5.542				111323.29
		1.896	0.11	-0.72		5103.07		5011.25		-0.10	0.11	5011.26	
50166	M				43.70		2.0081		5.534				116334.55
		1.960	0.06	-0.62		1738.92		1707.63		-0.01	0.12	1707.74	
50165	M				43.75		2.0108		5.533				118042.29
		1.770	-0.01	0.83		5662.26		5560.40		0.00	0.11	5560.51	
50164	K				43.79		2.0101		5.533				123602.79
		0.024	0.02	0.00		1483.68		1456.99		0.00	0.00	1456.99	
67014	K				43.80		2.0098		5.533				125059.78
		1.172	-0.04	0.03		-3694.76		-3628.29		-0.01	0.07	-3628.23	
67015	M				43.82		2.0091		5.532				121431.55

1	2	3	4	5	6	7	8	9	10	11	12	13	14
67015	M				43.82		2.0091		5.532				121431.55
		0.036	-0.01	0.00		998.23		980.27		0.00	0.00	980.27	
50163	M				43.82		2.0088		5.532				122411.82
		1.348	-0.12	1.80		615.71		604.63		0.02	0.08	604.73	
50162	K				43.86		2.0087		5.534				123016.55
		1.494	0.00	-0.30		3694.45		3627.98		0.06	0.09	3628.13	
50161	K				43.91		2.0091		5.539				126644.68
		1.528	-0.59	-1.28		-13285.29		-13046.29		0.03	0.09	-13046.17	
50160	S				43.95		2.0103		5.541				113598.51
		1.312	0.01	-1.74		11395.53		11190.52		0.01	0.08	11190.61	
50159	M				43.99		2.0089		5.542				124789.11
		1.944	0.65	-1.24		11686.94		11476.67		-0.10	0.12	11476.69	
50158	K				44.01		2.0075		5.534				136265.81
		1.988	0.26	-0.35		10500.29		10311.36		-0.01	0.12	10311.47	
87203	S				44.05		2.0059		5.533				146577.27
		1.680	0.35	0.05		314.71		309.05		0.00	0.10	309.15	
50156	K				44.09		2.0066		5.533				146886.42
		1.334	0.19	-0.94		3923.36		3852.77		-0.06	0.08	3852.79	
50155	K				44.11		2.0063		5.529				150739.21
		2.416	-0.28	-2.52		-3175.79		-3118.65		-0.04	0.14	-3118.55	
50154	M				44.16		2.0074		5.525				147620.67
		1.488	-0.05	1.85		-9648.06		-9474.47		0.04	0.09	-9474.34	
50153	M				44.20		2.0088		5.528				138146.33
		2.082	-0.07	-2.66		739.01		725.72		0.11	0.12	725.95	
87202	K				44.27		2.0069		5.537				138872.27
		2.132	-1.78	2.27		-18847.53		-18508.44		-0.01	0.13	-18508.32	
50151	M				44.31		2.0102		5.537				120363.95
		2.004	0.02	2.08		472.73		464.22		0.02	0.12	464.36	
50150	M				44.36		2.0095		5.538				120828.31
		1.948	0.41	2.51		4953.52		4864.41		-0.05	0.12	4864.48	
64002	K				44.39		2.0088		5.534				125692.78
		1.756	0.30	2.36		6622.49		6503.34		0.12	0.10	6503.56	
87201	K				44.45		2.0075		5.544				132196.35
		1.753	0.43	1.54		12160.56		11941.76		0.09	0.10	11941.95	
76239	K				44.50		2.0063		5.551				144138.30
		0.633	0.14	-0.93		-4915.70		-4827.25		0.02	0.33	-4826.90	
50147	K				44.51		2.0074		5.552				139311.40
		64.907	1.21	4.87		76098.41		74729.97		-1.28	4.15	74732.84	

24.2 A PARKANO-AITONEVA 1987.74

50147	K				44.51		2.0074		5.552				139311.40
		1.266	-0.20	1.25		2972.70		2919.21		0.08	0.00	2919.29	
50146	K				44.55		2.0091		5.559				142230.69
		1.654	0.05	1.22		-3496.84		-3433.94		0.03	0.00	-3433.91	
50145	K				44.59		2.0131		5.562				138796.79
		2.050	-0.01	2.23		9590.34		9417.84		0.04	0.01	9417.89	
50144	M				44.65		2.0130		5.566				148214.67
		2.296	0.00	2.26		8270.56		8121.80		-0.01	0.01	8121.80	
50143	K				44.70		2.0128		5.564				156336.47
		2.236	0.03	1.40		-261.85		-257.14		-0.06	0.01	-257.19	
50142	K				44.74		2.0171		5.560				156079.27
		1.468	0.08	-0.32		8259.08		8110.55		0.05	0.00	8110.60	
50141	K				44.78		2.0166		5.564				164189.88
		2.246	-0.20	2.23		-16952.75		-16647.92		-0.02	0.01	-16647.93	
50140	K				44.83		2.0210		5.562				147541.94
		1.892	-0.16	-2.41		11041.84		10843.30		-0.05	0.01	10843.26	
50139	K				44.86		2.0189		5.558				158385.20
		1.666	-0.09	0.16		-9853.01		-9675.85		-0.02	0.00	-9675.87	
50138	K				44.89		2.0209		5.556				148709.34
		2.252	-0.22	0.84		13011.77		12777.79		0.04	0.01	12777.84	
50137	K				44.96		2.0149		5.560				161487.17
		19.026	-0.72	8.86		22581.83		22175.64		0.08	0.06	22175.78	

1	2	3	4	5	6	7	8	9	10	11	12	13	14
						24.2 B AITONEVA-HAAPAMÄKI 1987.73							
50137	K				44.96		2.0149		5.560				161487.17
		1.510	-0.23	-0.07		9476.88		9306.41		-0.11	0.00	9306.30	
50136	K				44.96		2.0093		5.551				170793.48
		1.352	-0.04	0.56		8623.80		8468.64		-0.03	0.00	8468.61	
50135	M				44.99		2.0063		5.549				179262.09
		2.226	-0.14	-0.63		-7406.82		-7273.54		-0.06	0.01	-7273.59	
50134	K				45.03		2.0060		5.544				171988.50
		2.090	-0.22	-0.88		-5748.59		-5645.16		-0.07	0.01	-5645.22	
50133	K				45.07		2.0086		5.538				166343.27
		1.560	-0.08	-0.33		-9836.64		-9659.68		-0.07	0.00	-9659.75	
50132	K				45.09		2.0116		5.533				156683.53
		2.266	-0.20	1.48		-12743.11		-12513.91		-0.15	0.01	-12514.05	
50131	K				45.11		2.0161		5.521				144169.47
		1.424	-0.10	0.71		-4322.87		-4245.14		-0.10	0.00	-4245.24	
50130	K				45.12		2.0195		5.513				139924.24
		2.148	0.10	0.32		10277.90		10093.09		-0.17	0.01	10092.93	
50129	K				45.13		2.0180		5.499				150017.16
		1.662	-0.26	0.38		-13005.65		-12771.80		0.00	0.00	-12771.80	
50128	K				45.17		2.0208		5.499				137245.37
		1.672	-0.09	2.44		3817.85		3749.20		-0.05	0.00	3749.15	
50127	K				45.20		2.0198		5.495				140994.52
		1.430	-0.10	-0.61		-7837.32		-7696.41		0.05	0.00	-7696.36	
50126	K				45.25		2.0210		5.499				133298.17
		2.204	0.00	0.54		-12693.35		-12465.16		-0.12	0.01	-12465.27	
50125	K				45.27		2.0243		5.489				120832.89
		1.952	-0.42	-0.30		-8502.74		-8349.91		0.02	0.01	-8349.88	
50124	K				45.32		2.0277		5.491				112483.01
		2.624	-0.08	-0.27		1175.48		1154.36		-0.35	0.01	1154.02	
50123	K				45.28		2.0256		5.462				113637.03
		1.480	-0.17	-0.64		8572.77		8418.68		-0.18	0.00	8418.50	
50122	K				45.26		2.0242		5.448				122055.53
		1.726	-0.72	3.30		7846.81		7705.76		-0.19	0.01	7705.58	
50121	K				45.25		2.0231		5.432				129761.11
		1.638	-0.16	0.23		-1097.80		-1078.06		-0.15	0.00	-1078.21	
50120	K				45.26		2.0269		5.420				128682.89
		1.586	-0.06	2.07		4085.56		4012.14		-0.20	0.00	4011.94	
50119	K				45.24		2.0295		5.403				132694.84
		2.184	0.02	2.68		-15611.80		-15331.27		-0.26	0.01	-15331.52	
50118	K				45.23		2.0324		5.383				117363.31
		1.216	-0.24	0.89		-11494.66		-11288.15		-0.03	0.00	-11288.18	
50117	K				45.25		2.0353		5.380				106075.14
		1.928	0.05	2.77		4401.51		4322.44		-0.21	0.01	4322.24	
50116	K				45.24		2.0349		5.362				110397.37
		2.034	0.08	1.61		-9480.15		-9309.86		0.00	0.01	-9309.85	
50115	K				45.29		2.0397		5.362				101087.52
		1.720	-0.06	1.05		2098.33		2060.65		-0.13	0.00	2060.52	
50114	K				45.31		2.0395		5.352				103148.03
		1.788	-0.11	0.44		16256.61		15964.60		-0.15	0.01	15964.46	
50113	K				45.32		2.0351		5.339				119112.49
		0.658	-0.03	0.58		3280.47		3221.54		-0.04	0.00	3221.50	
782301	K				45.33		2.0343		5.336				122333.99
		1.216	0.02	1.65		11683.02		11473.12		-0.12	0.00	11473.00	
50112	M				45.33		2.0322		5.326				133806.99
		2.810	0.23	0.00		13507.05		13264.35		-0.38	0.01	13263.98	
50111	K				45.29		2.0296		5.295				147070.97
		0.820	-0.01	0.00		4309.01		4231.57		-0.12	0.00	4231.45	
782308	M				45.28		2.0287		5.285				151302.41
		0.604	0.04	0.16		-807.13		-792.63		-0.08	0.00	-792.71	
50110	K				45.27		2.0289		5.279				150509.71
		1.520	0.00	0.34		2561.74		2515.70		-0.18	0.00	2515.52	
50109	K				45.26		2.0290		5.264				153025.23
		2.352	-0.15	-0.14		6477.15		6360.74		-0.35	0.01	6360.40	
50108	K				45.23		2.0269		5.236				159385.62
		1.440	-0.04	-0.15		6358.05		6243.77		-0.17	0.00	6243.60	
50107	K				45.22		2.0248		5.222				165629.23

1	2	3	4	5	6	7	8	9	10	11	12	13	14
50107	K				45.22		2.0248		5.222				165629.23
		1.802	0.22	1.06		243.56		239.18		-0.11	0.01	239.08	
50106	K				45.24		2.0241		5.213				165868.31
		1.484	-0.06	-0.52		-4319.31		-4241.67		-0.22	0.00	-4241.89	
50105	K				45.22		2.0240		5.195				161626.42
		1.370	0.06	-0.78		-8100.43		-7954.82		-0.21	0.00	-7955.03	
50104	M				45.20		2.0261		5.177				153671.39
		2.240	0.07	1.58		-2370.87		-2328.26		-0.24	0.01	-2328.49	
50103	K				45.20		2.0288		5.157				151342.90
		1.586	-0.12	0.79		-12491.62		-12267.16		0.09	0.00	-12267.07	
50102	K				45.25		2.0327		5.164				139075.84
		1.658	-0.29	0.56		-15352.82		-15077.01		0.00	0.00	-15077.01	
50101	K				45.29		2.0380		5.164				123998.83
		1.588	-0.16	0.03		-877.32		-861.56		-0.14	0.00	-861.70	
1027	K				45.29		2.0382		5.153				123137.13
		66.568	-3.45	22.90		-39047.48		-38345.25		-4.98	0.16	-38350.07	

25 A TAMPERE-VATIALA 1981.75

64084	K				42.14		1.9944		4.507				97709.52
		0.675	-0.08	0.48		-4002.28		-3930.23		-0.17	0.48	-3929.92	
965C	P				42.11		1.9952		4.498				93779.62
		0.960	-0.18	-1.17		-3544.98		-3481.16		-0.26	0.06	-3481.36	
39009	S				42.09		1.9960		4.484				90298.25
		2.130	0.62	0.36		2691.22		2642.76		-0.46	0.14	2642.44	
39010	P				42.07		1.9948		4.459				92940.70
		2.712	0.20	-0.39		2690.46		2642.02		-0.61	0.18	2641.59	
AP0105	P				42.05		1.9957		4.425				95582.28
		1.913	0.12	0.06		5036.23		4945.56		-0.37	0.12	4945.31	
39011	K				42.05		1.9958		4.405				100527.59
		1.272	0.31	-1.05		8550.93		8396.97		-0.28	0.08	8396.77	
58001	K				42.04		1.9943		4.390				108924.36
		9.662	0.99	-1.71		11421.57		11215.92		-2.15	1.06	11214.83	

25 B VATIALA-KORKEAKOSKI 1982.35

58001	K				42.04		1.9943		4.390				108924.36
		0.037	0.01	-0.03		-1097.08		-1077.32		0.00	0.06	-1077.26	
81217	K				42.04		1.9945		4.389				107847.11
		1.603	-0.53	0.63		20288.22		19922.89		-0.09	-2.33	19920.47	
58002	K				42.06		1.9919		4.384				127767.57
		1.676	0.24	-0.31		-1031.27		-1012.70		0.04	-0.49	-1013.15	
973	K				42.10		1.9928		4.386				126754.42
		1.260	0.12	-0.79		-5826.41		-5721.49		0.02	1.99	-5719.48	
59002	K				42.13		1.9922		4.387				121034.94
		1.980	-0.60	-0.61		-13156.90		-12919.97		0.32	0.13	-12919.52	
39012	M				42.20		1.9920		4.406				108115.42
		1.958	1.46	-1.27		13456.12		13213.78		0.18	0.13	13214.09	
59006	M				42.26		1.9895		4.416				121329.51
		2.332	0.14	1.95		4182.53		4107.20		-0.03	0.15	4107.32	
977A	K				42.31		1.9874		4.414				125436.83
		1.268	0.14	0.84		-11391.84		-11186.66		-0.02	0.08	-11186.60	
978A	K				42.33		1.9905		4.413				114250.24
		2.286	0.93	-1.31		14312.71		14054.93		-0.02	0.15	14055.06	
62047	K				42.38		1.9881		4.412				128305.30
		2.332	0.49	0.82		10390.47		10203.30		0.22	0.15	10203.67	
81215	K				42.46		1.9841		4.424				138508.96
		1.616	-0.45	1.41		-11886.60		-11672.47		0.15	0.11	-11672.21	
81216	K				42.51		1.9881		4.433				126836.75
		1.814	0.23	-0.52		3457.74		3395.46		0.18	0.12	3395.76	
982	K				42.57		1.9895		4.443				130232.51
		1.978	0.01	0.34		-4398.22		-4319.01		-0.13	0.13	-4319.01	
82201	K				42.60		1.9905		4.436				125913.49
		2.250	-0.45	0.71		-3777.69		-3709.66		-0.20	0.15	-3709.71	
82202	K				42.63		1.9926		4.425				122203.78

1	2	3	4	5	6	7	8	9	10	11	12	13	14
82202	K				42.63		1.9926		4.425				122203.78
		1.967	0.08	-1.43		-864.11		-848.55		-0.25	0.13	-848.67	
82203	K				42.64		1.9934		4.410				121355.12
		1.522	-0.01	0.61		-12004.65		-11788.51		-0.01	0.10	-11788.42	
67002	K				42.68		1.9965		4.410				109566.70
		2.422	0.15	-1.52		-17372.15		-17059.42		-0.18	0.16	-17059.44	
67003	K				42.71		2.0002		4.400				92507.27
		1.821	-0.33	1.06		-6467.54		-6351.14		0.04	0.12	-6350.98	
39015	P				42.76		2.0020		4.402				86156.28
		1.752	0.15	0.68		1547.78		1519.92		0.19	0.11	1520.22	
989	K				42.81		2.0037		4.413				87676.51
		1.864	0.14	0.43		699.25		686.66		0.43	0.12	687.21	
990	K				42.87		2.0071		4.437				88363.72
		2.254	0.87	0.37		16406.88		16111.66		0.63	0.15	16112.44	
991	M				42.95		2.0060		4.473				104476.16
		2.622	-0.58	1.78		-16547.33		-16249.61		0.60	0.17	-16248.84	
82204	S				43.04		2.0101		4.507				88227.32
		3.892	1.55	-1.18		27745.81		27246.61		1.08	0.25	27247.94	
994	R				43.18		2.0059		4.568				115475.25
		1.606	0.92	1.08		10812.56		10617.98		0.35	0.10	10618.43	
995A	K				43.24		2.0014		4.589				126093.70
		3.970	0.82	-0.37		6184.85		6073.53		0.48	0.26	6074.27	
65083	S				43.37		2.0007		4.616				132167.95
		1.832	0.04	0.02		-3894.47		-3824.38		0.23	0.12	-3824.03	
AP0301	P				43.43		2.0035		4.628				128343.92
		2.154	-0.04	0.40		-4212.19		-4136.39		0.24	0.14	-4136.01	
998	K				43.50		2.0060		4.642				124207.91
		54.068	5.50	3.79		15556.46		15276.65		4.45	2.46	15283.56	

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998	K				43.50		2.0060		4.642				124207.91
		1.926	0.42	0.09		8707.67		8550.98		0.01	0.13	8551.12	
999A	K				43.55		2.0053		4.643				132759.03
		2.024	0.08	0.17		-3634.26		-3568.87		0.01	0.13	-3568.73	
1000	K				43.60		2.0073		4.643				129190.30
		0.006	-0.01	0.02		1108.93		1088.97		0.00	0.00	1088.97	
69001	K				43.60		2.0071		4.643				130279.27
		2.246	0.08	-0.53		-2578.13		-2531.75		0.22	0.15	-2531.38	
1001	M				43.67		2.0094		4.655				127747.89
		1.576	-0.11	0.12		-5391.74		-5294.75		0.28	0.10	-5294.37	
1002	S				43.73		2.0122		4.672				122453.52
		0.680	0.16	0.19		2866.33		2814.78		0.12	0.04	2814.94	
63039	P				43.75		2.0119		4.679				125268.47
		1.672	0.30	-0.67		6021.99		5913.67		0.33	0.11	5914.11	
69002	M				43.82		2.0118		4.697				131182.57
		1.856	0.40	1.21		12873.31		12641.73		0.46	0.12	12642.31	
69003	M				43.88		2.0096		4.723				143824.89
		1.954	0.49	-0.25		-14733.87		-14468.84		0.37	0.13	-14468.34	
69004	M				43.95		2.0134		4.744				129356.54
		2.010	0.44	-0.65		-10422.48		-10235.03		0.38	0.13	-10234.52	
781367	K				44.03		2.0163		4.766				119122.01
		1.920	0.45	0.84		-9872.04		-9694.52		0.46	0.13	-9693.93	
1008	K				44.10		2.0200		4.793				109428.08
		2.144	0.00	0.89		2851.54		2800.27		0.40	0.14	2800.81	
1009	M				44.18		2.0228		4.815				112228.89
		2.118	0.05	-1.15		7568.04		7431.98		0.36	0.14	7432.48	
1010	K				44.25		2.0216		4.836				119661.38
		1.848	1.16	-0.18		-8543.96		-8390.36		0.18	0.12	-8390.06	
59011	K				44.32		2.0231		4.846				111271.31
		0.894	-0.01	0.21		-486.93		-478.17		0.18	0.06	-477.93	
1013	P				44.35		2.0237		4.856				110793.38
		1.728	0.47	-0.71		-3293.45		-3234.25		0.39	0.11	-3233.75	
1014	K				44.41		2.0247		4.878				107559.63
		1.660	-0.79	0.28		12908.08		12676.05		0.35	0.11	12676.51	
1015	M				44.48		2.0217		4.898				120236.13

1	2	3	4	5	6	7	8	9	10	11	12	13	14
1015	M				44.48		2.0217		4.898				120236.13
		2.208	-1.65	-0.36		23277.25		22858.72		0.47	0.14	22859.33	
1016	K				44.56		2.0175		4.925				143095.46
		1.688	1.20	0.11		-21006.01		-20628.33		0.32	0.11	-20627.90	
1017	M				44.62		2.0226		4.943				122467.56
		2.154	-0.12	0.96		-10732.20		-10539.29		0.35	0.14	-10538.80	
68012	K				44.71		2.0262		4.963				111928.76
		2.690	0.32	0.14		-4541.86		-4460.23		0.52	0.18	-4459.53	
AP0500	P				44.81		2.0293		4.993				107469.23
		1.065	0.04	-0.32		6388.75		6273.94		0.16	0.07	6274.17	
1020	M				44.84		2.0285		5.002				113743.40
		1.730	0.14	-0.25		-1571.98		-1543.72		0.34	0.11	-1543.27	
1021	R				44.91		2.0298		5.021				112200.13
		1.998	-0.54	-0.07		12600.24		12373.80		0.42	0.13	12374.35	
39018	K				44.98		2.0297		5.045				124574.47
		2.268	-0.63	0.13		16402.40		16107.64		0.42	0.15	16108.21	
62098	M				45.06		2.0290		5.069				140682.69
		1.449	0.27	-1.41		-4504.62		-4423.67		0.27	0.09	-4423.31	
68013	K				45.12		2.0311		5.084				136259.37
		2.390	0.59	-0.96		-10947.00		-10750.31		0.56	0.16	-10749.59	
63054	K				45.19		2.0351		5.116				125509.79
		1.682	0.23	1.01		-3863.05		-3793.66		0.37	0.11	-3793.18	
41002	R				45.25		2.0377		5.137				121716.61
		0.336	0.08	0.15		1879.88		1846.11		0.07	1.32	1847.50	
62097	P				45.26		2.0378		5.141				123564.11
		0.906	0.06	0.21		-435.09		-427.28		0.20	0.10	-426.98	
1027	K				45.29		2.0382		5.153				123137.13
		50.826	3.57	-0.78		-1104.29		-1084.41		8.97	4.66	-1070.78	

26 A HAAPAMÄKI-KEURUU 1981.84

1027	K				45.29		2.0382		5.153				123137.13
		0.016	0.00	0.01		169.78		166.73		0.00	0.00	166.73	
81111	K				45.29		2.0381		5.153				123303.87
		0.921	0.03	-0.17		265.10		260.34		-0.21	0.11	260.24	
62097	P				45.26		2.0378		5.141				123564.11
		0.330	-0.03	-0.04		-1882.55		-1848.74		-0.07	1.31	-1847.50	
41002	R				45.25		2.0377		5.137				121716.61
		1.070	0.35	0.12		5274.80		5180.05		-0.26	0.08	5179.87	
39020	M				45.23		2.0360		5.123				126896.48
		1.922	0.41	-0.11		11154.65		10954.24		-0.43	0.15	10953.96	
39021	K				45.21		2.0324		5.099				137850.43
		2.164	-0.08	-0.33		-394.68		-387.59		-0.28	0.16	-387.71	
39022	K				45.22		2.0329		5.084				137462.73
		1.777	-0.51	0.21		-11604.05		-11395.59		0.10	0.13	-11395.36	
39023	K				45.28		2.0369		5.089				126067.37
		1.600	0.14	0.82		12309.21		12088.10		-0.06	0.12	12088.16	
39024	K				45.32		2.0356		5.086				138155.52
		2.150	-0.70	-0.36		-10838.78		-10644.09		-0.27	0.16	-10644.20	
39025	K				45.34		2.0401		5.071				127511.32
		1.634	-0.23	-0.53		-11749.23		-11538.23		-0.36	0.12	-11538.47	
39026	K				45.33		2.0431		5.051				115972.86
		13.584	-0.62	-0.38		-7295.74		-7164.78		-1.84	2.34	-7164.28	

26 B KEURUU-ASUNTA 1981.75

39026	K				45.33		2.0431		5.051				115972.86
		1.726	-0.43	-1.70		-8421.95		-8270.73		-0.33	0.13	-8270.93	
39027	S				45.33		2.0454		5.033				107701.93
		2.302	1.05	-3.21		17966.07		17643.46		-0.56	0.17	17643.07	
39028	K				45.30		2.0409		5.002				125345.00
		3.927	-0.23	-2.83		910.17		893.82		-0.94	0.30	893.18	
39029	M				45.25		2.0384		4.951				126238.18
		1.990	-0.32	-0.43		-5144.80		-5052.39		-0.34	0.15	-5052.58	
39030	M				45.26		2.0387		4.932				121185.60

1	2	3	4	5	6	7	8	9	10	11	12	13	14
39030	M				45.26		2.0387		4.932				121185.60
		1.787	0.80	0.09		15494.49		15216.15		-0.36	0.13	15215.92	
2014	M				45.25		2.0339		4.912				136401.52
		0.690	0.01	0.57		1983.36		1947.72		0.00	0.05	1947.77	
81305	K				45.26		2.0339		4.912				138349.31
		12.422	0.88	-7.51		22787.34		22378.03		-2.53	0.93	22376.43	

26 C ASUNTA-VESANKA 1981.47

81305	K				45.26		2.0339		4.912				138349.31
		0.009	-0.01	0.03		-842.11		-826.98		0.00	0.00	-826.98	
81306	K				45.26		2.0340		4.912				137522.33
		1.897	-0.01	-0.30		-3227.08		-3169.10		-0.44	0.14	-3169.40	
39031	K				45.25		2.0338		4.888				134352.93
		2.212	0.22	-0.33		786.76		772.62		-0.42	0.17	772.37	
2016	M				45.24		2.0303		4.866				135125.29
		2.701	0.90	-0.52		25426.18		24969.21		-0.43	0.20	24968.98	
39032	K				45.24		2.0250		4.842				160094.27
		2.293	0.30	-1.17		21317.44		20934.21		-0.44	0.17	20933.94	
39033	K				45.24		2.0204		4.819				181028.21
		2.593	-0.37	-0.79		-10787.99		-10594.04		-0.44	0.20	-10594.28	
81304	K				45.25		2.0225		4.795				170433.93
		2.058	-0.36	-0.35		-8970.61		-8809.37		-0.30	0.16	-8809.51	
2020	K				45.27		2.0279		4.779				161624.42
		1.771	-1.52	0.41		-18557.07		-18223.62		-0.11	0.13	-18223.60	
39035	K				45.31		2.0335		4.773				143400.83
		2.647	-0.58	-0.48		-22181.62		-21783.16		-0.48	0.20	-21783.44	
39036	K				45.32		2.0402		4.747				121617.38
		1.612	0.15	0.00		11045.30		10846.92		-0.35	0.12	10846.69	
39037	K				45.31		2.0388		4.728				132464.08
		1.817	0.04	-0.46		-2884.44		-2832.64		-0.26	0.14	-2832.76	
2024	K				45.33		2.0449		4.714				129631.31
		1.679	0.17	-0.54		2660.35		2612.59		-0.25	0.13	2612.47	
2025	K				45.34		2.0470		4.700				132243.77
		0.307	0.05	0.04		166.17		163.19		-0.02	0.02	163.19	
39038	K				45.34		2.0472		4.699				132406.98
		1.651	0.51	-0.21		14306.52		14049.66		-0.17	0.12	14049.61	
39039	K				45.37		2.0449		4.690				146456.58
		2.019	0.62	-0.87		8038.67		7894.33		-0.10	0.15	7894.38	
H	S				45.41		2.0442		4.684				154350.97
		0.598	-0.02	0.30		5438.80		5341.14		-0.06	0.05	5341.13	
2027	K				45.39		2.0428		4.681				159692.09
		0.823	-0.15	-0.67		-4084.20		-4010.86		0.02	0.06	-4010.78	
HT	K				45.41		2.0440		4.682				155681.31
		0.039	-0.04	0.15		-3076.89		-3021.64		0.00	0.00	-3021.64	
HB1909	K				45.41		2.0446		4.682				152659.68
		1.820	0.08	-0.81		4278.73		4201.90		-0.48	0.14	4201.56	
61059	M				45.38		2.0433		4.656				156861.23
		1.301	-0.37	-0.32		-3583.39		-3519.05		-0.25	0.10	-3519.20	
2029	K				45.38		2.0441		4.642				153342.03
		0.625	0.04	-0.16		2304.63		2263.25		-0.12	0.05	2263.18	
39041	M				45.38		2.0435		4.636				155605.21
		1.375	-0.78	0.77		-17241.65		-16932.07		-0.26	0.10	-16932.23	
2030	M				45.38		2.0463		4.622				138672.98
		2.182	0.08	0.63		-3000.53		-2946.66		-0.51	0.16	-2947.01	
39042	K				45.36		2.0462		4.594				135725.98
		1.617	1.80	-3.13		16759.26		16458.35		-0.23	0.12	16458.24	
2032	K				45.37		2.0437		4.582				152184.22
		0.435	-0.24	-0.11		-5029.99		-4939.67		-0.03	0.03	-4939.67	
39043	M				45.38		2.0448		4.580				147244.55
		1.817	0.15	0.20		-959.04		-941.82		-0.26	0.14	-941.94	
2033	S				45.39		2.0444		4.566				146302.61
		2.017	0.26	-1.42		3692.46		3626.16		-0.49	0.15	3625.82	
39044	K				45.36		2.0430		4.540				149928.43
		1.232	-0.26	-0.47		-14922.26		-14654.33		-0.29	0.09	-14654.53	
39045	M				45.35		2.0468		4.524				135273.91

1	2	3	4	5	6	7	8	9	10	11	12	13	14
39045	M				45.35		2.0468		4.524				135273.91
		2.418	-0.31	-1.24		-1944.73		-1909.82		-0.66	0.18	-1910.30	
2036	K				45.30		2.0457		4.489				133363.61
		1.356	-0.40	0.88		-3962.90		-3891.75		-0.38	0.10	-3892.03	
GL132	M				45.27		2.0460		4.468				129471.58
		0.590	-0.02	-0.15		1119.33		1099.23		-0.17	0.04	1099.10	
62096	K				45.25		2.0453		4.459				130570.68
		47.511	-0.07	-11.09		-7915.92		-7773.83		-8.38	3.56	-7778.65	

26 D VESANKA-JYVÄSKYLÄ 1981.38

62096	K				45.25		2.0453		4.459				130570.68
		2.078	-0.58	0.29		-18190.22		-17863.62		-0.60	0.16	-17864.06	
2038	M				45.20		2.0459		4.427				112706.62
		0.368	-0.05	-0.15		-247.42		-242.98		-0.10	0.03	-243.05	
76	R				45.19		2.0456		4.422				112463.57
		1.921	-0.13	-0.88		-20700.21		-20328.59		-0.17	0.15	-20328.61	
2039	S				45.21		2.0488		4.413				92134.95
		0.834	-0.60	-0.28		-9068.94		-8906.15		0.01	0.06	-8906.08	
77003	S				45.23		2.0497		4.413				83228.88
		1.526	0.14	-0.88		-1714.93		-1684.15		0.04	0.12	-1683.99	
8	P				45.27		2.0495		4.416				81544.88
		0.194	-0.03	0.10		-655.53		-643.76		-0.02	0.01	-643.77	
39047	S				45.27		2.0499		4.415				80901.12
		1.167	0.05	0.39		1343.33		1319.22		-0.19	-0.67	1318.36	
81300	K				45.27		2.0519		4.404				82219.48
		0.021	0.07	0.01		1839.50		1806.48		0.00	-0.01	1806.47	
123A	K				45.27		2.0516		4.404				84025.95
		8.109	-1.13	-1.40		-47394.42		-46543.55		-1.03	-0.15	-46544.73	

27.1 JYVÄSKYLÄ-VAAJAKOSKI 1981.54

123A	K				45.27		2.0516		4.404				84025.95
		0.866	0.20	-1.00		1234.50		1212.35		-0.23	-0.03	1212.09	
81301	K				45.25		2.0519		4.392				85238.04
		1.542	0.34	-0.92		3995.87		3924.16		-0.34	-0.05	3923.77	
81302	K				45.24		2.0522		4.373				89161.81
		2.334	0.10	1.31		-4394.24		-4315.38		-0.33	-0.08	-4315.79	
81303	K				45.25		2.0536		4.355				84846.02
		0.094	0.02	0.09		2811.15		2760.70		-0.01	0.00	2760.69	
78002	K				45.26		2.0531		4.355				87606.71
		4.836	0.66	-0.52		3647.27		3581.82		-0.91	-0.16	3580.75	

27.2 A VAAJAKOSKI-HANKASALMI 1983.43

78002	K				45.26		2.0531		4.355				87606.71
		0.059	0.00	0.11		-314.17		-308.53		0.00	0.00	-308.53	
82113	K				45.26		2.0532		4.355				87298.17
		2.164	0.14	0.71		-1403.29		-1378.10		-0.14	-0.01	-1378.25	
78003	K				45.29		2.0539		4.346				85919.93
		1.846	-0.25	1.32		-2528.98		-2483.59		-0.41	-0.01	-2484.01	
39052	K				45.27		2.0530		4.322				83435.93
		2.028	0.18	-0.27		4597.74		4515.22		-0.36	-0.01	4514.85	
39053	M				45.27		2.0509		4.300				87950.78
		1.956	0.35	0.45		17217.59		16908.51		-0.40	-0.01	16908.10	
39054	K				45.26		2.0464		4.276				104858.89
		2.112	0.74	-2.28		18722.90		18386.71		-0.40	-0.01	18386.30	
83103	M				45.25		2.0420		4.252				123245.19
		0.554	0.10	0.53		-5379.22		-5282.62		-0.07	0.00	-5282.69	
39055	K				45.25		2.0419		4.247				117962.51
		0.032	0.00	-0.12		689.87		677.48		-0.01	0.00	677.47	
78005	K				45.25		2.0418		4.247				118639.98
		1.482	-0.46	1.29		-18314.11		-17985.26		-0.26	0.00	-17985.52	
GL45	M				45.25		2.0447		4.231				100654.45

1	2	3	4	5	6	7	8	9	10	11	12	13	14
GL45	M				45.25		2.0447		4.231				100654.45
		0.658	-0.26	-0.50		-1394.98		-1369.94		-0.05	0.00	-1369.99	
39056	M				45.26		2.0448		4.228				99284.46
		1.800	1.26	-0.27		17370.07		17058.16		-0.15	-0.01	17058.00	
39057	M				45.29		2.0411		4.219				116342.46
		1.144	-0.20	-0.88		-4042.65		-3970.06		-0.12	0.00	-3970.18	
62061	M				45.30		2.0428		4.212				112372.28
		2.170	-0.65	-0.39		-14867.81		-14600.88		-0.24	-0.01	-14601.13	
61058	K				45.33		2.0498		4.197				97771.16
		0.124	0.05	0.01		1199.58		1178.04		-0.01	0.00	1178.03	
80003	K				45.33		2.0497		4.197				98949.18
		1.779	-0.23	0.10		-6472.90		-6356.72		-0.21	-0.01	-6356.94	
39058	M				45.34		2.0513		4.184				92592.26
		2.260	-0.25	-2.91		-1970.74		-1935.37		-0.34	-0.01	-1935.72	
39059	M				45.36		2.0514		4.163				90656.53
		0.432	0.11	0.26		1553.99		1526.10		-0.06	0.00	1526.04	
83104	K				45.36		2.0512		4.160				92182.57
		2.262	0.35	-1.95		6367.22		6252.93		-0.37	-0.01	6252.55	
80004	K				45.37		2.0495		4.137				98435.13
		1.854	0.34	0.16		3760.05		3692.55		-0.07	-0.01	3692.47	
39061	M				45.40		2.0478		4.133				102127.61
		1.652	-0.05	-0.76		603.31		592.47		-0.10	0.00	592.37	
39062	M				45.43		2.0483		4.127				102719.98
		1.974	1.06	-1.13		15152.64		14880.61		-0.30	-0.01	14880.30	
83101	M				45.44		2.0454		4.109				117600.28
		2.018	-0.04	-0.89		-5431.11		-5333.61		-0.19	-0.01	-5333.81	
83102	M				45.47		2.0486		4.097				112266.47
		1.500	-0.31	0.30		-12359.73		-12137.89		-0.12	0.00	-12138.01	
39064	K				45.49		2.0536		4.090				100128.45
		1.716	0.19	-0.34		5914.89		5808.74		0.04	0.00	5808.78	
83105	K				45.54		2.0538		4.093				105937.23
		1.098	0.88	-0.43		6321.24		6207.79		-0.06	0.00	6207.73	
39065	K				45.56		2.0531		4.089				112144.95
		0.950	0.18	0.06		4109.27		4035.52		-0.12	0.00	4035.40	
83106	K				45.57		2.0526		4.082				116180.36
		0.045	0.01	-0.30		502.20		493.19		-0.01	0.00	493.18	
83107	K				45.57		2.0525		4.081				116673.54
		0.080	0.03	0.10		401.19		393.99		-0.01	0.00	393.98	
83108	K				45.56		2.0524		4.080				117067.52
		37.749	3.27	-8.02		30004.07		29465.46		-4.54	-0.13	29460.79	

27.2 B HANKASALMI-SAUVAMÄKI 1983.56

83108	K				45.56		2.0524		4.080				117067.52
		0.080	-0.03	0.10		-401.19		-393.99		0.01	0.00	-393.98	
83107	K				45.57		2.0525		4.081				116673.54
		0.045	-0.01	-0.30		-502.20		-493.19		0.01	0.00	-493.18	
83106	K				45.57		2.0526		4.082				116180.36
		1.452	-0.33	-1.21		-6301.13		-6188.05		-0.31	0.00	-6188.36	
39066	M				45.55		2.0550		4.063				109991.98
		2.314	-0.07	-1.23		424.61		416.99		-0.49	-0.01	416.49	
39067	K				45.52		2.0566		4.033				110408.48
		3.891	-0.44	-2.64		-6779.92		-6658.25		-0.78	-0.01	-6659.04	

27.2 C SAUVAMÄKI-VENETMÄKI 1984.40

39067	K				45.52		2.0566		4.033				110408.48
		2.689	1.18	0.20		24048.13		23616.60		-0.35	-0.01	23616.24	
83109	K				45.54		2.0537		4.010				134024.72
		2.190	0.37	0.36		12135.49		11917.68		-0.36	-0.01	11917.31	
62060	M				45.53		2.0508		3.987				145942.03
		1.811	0.03	-1.03		-647.51		-635.89		-0.29	-0.01	-636.19	
39070	K				45.53		2.0507		3.969				145305.85
		6.690	1.58	-0.47		35536.12		34898.39		-1.00	-0.03	34897.36	

1	2	3	4	5	6	7	8	9	10	11	12	13	14
						27.2 D VENETMÄKI-PIEKSÄMÄKI 1984.37							
39070	K				45.53		2.0507		3.969				145305.85
		1.974	-0.14	-1.11		-3367.31		-3306.87		-0.26	-0.01	-3307.14	
39071	M				45.54		2.0516		3.952				141998.71
		1.705	0.59	-1.09		3236.01		3177.93		-0.24	0.00	3177.69	
83110	K				45.54		2.0521		3.937				145176.40
		2.478	-0.64	0.95		-21151.73		-20772.17		-0.22	-0.01	-20772.40	
39073	M				45.57		2.0576		3.923				124404.00
		2.275	0.92	0.90		8391.79		8241.21		-0.28	-0.01	8240.92	
39074	M				45.59		2.0562		3.905				132644.92
		2.111	0.13	1.37		1378.71		1353.97		-0.34	-0.01	1353.62	
39075	K				45.58		2.0562		3.883				133998.54
		2.125	-0.03	2.25		-1901.22		-1867.11		-0.45	-0.01	-1867.57	
39076	M				45.54		2.0591		3.855				132130.97
		2.258	-0.04	0.25		-3982.86		-3911.40		-0.50	-0.01	-3911.91	
39077	M				45.48		2.0591		3.823				128219.07
		1.628	-0.34	0.80		-8599.53		-8445.26		-0.33	0.00	-8445.59	
83111	M				45.45		2.0611		3.802				119773.47
		1.916	-0.30	-0.76		-3805.11		-3736.85		-0.36	-0.01	-3737.22	
39078	M				45.43		2.0609		3.779				116036.26
		2.216	1.01	-0.85		8385.41		8234.98		-0.29	-0.01	8234.68	
39079	K				45.43		2.0594		3.760				124270.94
		0.888	0.33	0.57		3031.30		2976.91		-0.04	0.00	2976.87	
83113	P				45.45		2.0588		3.758				127247.81
		0.731	0.53	0.03		2896.03		2844.08		-0.08	0.00	2844.00	
83114	M				45.45		2.0583		3.752				130091.80
		1.026	0.06	0.16		3505.31		3442.42		-0.15	0.00	3442.27	
83115	M				45.46		2.0575		3.743				133534.06
		1.466	-0.22	-0.53		-10105.63		-9924.32		-0.13	0.00	-9924.45	
83112	M				45.47		2.0597		3.734				123609.61
		0.244	-0.02	0.23		-695.38		-682.91		-0.03	0.00	-682.94	
63004	M				45.47		2.0597		3.733				122926.67
		0.902	0.15	-0.03		5549.05		5449.49		-0.15	-0.11	5449.23	
593	K				45.44		2.0583		3.723				128375.90
		25.943	1.99	3.14		-17235.16		-16925.92		-3.85	-0.19	-16929.96	
						28 A KOUVOLA-MÄNTYHARJU 1982.58							
37062	K				39.41		1.9204		2.262				73124.93
		0.036	-0.01	-0.08		-2342.23		-2299.88		-0.01	0.00	-2299.89	
80201	K				39.41		1.9209		2.262				70825.05
		1.501	0.35	1.14		6537.22		6419.03		0.28	0.04	6419.35	
39097	K				39.43		1.9204		2.278				77244.41
		1.792	-0.20	0.26		-17032.41		-16724.51		0.27	0.05	-16724.19	
459	K				39.49		1.9248		2.293				60520.22
		1.883	0.05	-0.55		-2230.66		-2190.33		0.20	0.05	-2190.08	
460	K				39.56		1.9251		2.305				58330.13
		2.270	1.10	-0.97		12135.79		11916.43		0.50	0.06	11916.99	
39096	K				39.63		1.9248		2.333				70247.13
		2.325	-0.40	1.48		-6106.21		-5995.83		0.45	0.06	-5995.32	
39095	K				39.72		1.9258		2.359				64251.80
		3.596	-0.09	-0.75		10831.28		10635.52		0.40	0.10	10636.02	
467	K				39.83		1.9273		2.382				74887.83
		1.074	-0.03	1.58		276.48		271.49		0.19	0.03	271.71	
62401	K				39.87		1.9278		2.393				75159.54
		1.361	-0.07	0.73		-1714.32		-1683.34		0.21	0.04	-1683.09	
39092	K				39.92		1.9298		2.405				73476.45
		1.923	0.13	-1.68		-3496.69		-3433.51		0.22	0.05	-3433.24	
470	K				39.99		1.9326		2.417				70043.21
		2.544	0.06	1.95		2655.82		2607.84		0.26	0.07	2608.17	
472	K				40.08		1.9336		2.432				72651.39
		1.070	0.01	-0.63		10030.18		9848.96		0.17	0.03	9849.16	
473	K				40.12		1.9327		2.442				82500.54
		1.239	-0.07	0.50		-20.22		-19.86		0.15	0.03	-19.68	
474	M				40.16		1.9341		2.451				82480.88

1	2	3	4	5	6	7	8	9	10	11	12	13	14
474	M				40.16		1.9341		2.451				82480.88
		1.920	0.24	-0.54		12532.94		12306.52		0.36	0.05	12306.93	
475	M				40.23		1.9317		2.471				94787.81
		1.502	-0.14	-0.20		-1627.74		-1598.33		0.15	0.04	-1598.14	
476	M				40.28		1.9332		2.480				93189.67
		2.476	-0.34	-1.66		-14039.11		-13785.50		0.20	0.07	-13785.23	
75004	K				40.36		1.9377		2.491				79404.44
		1.745	0.43	-0.30		-2735.09		-2685.69		-0.02	0.05	-2685.66	
480	K				40.39		1.9395		2.490				76718.77
		0.656	-0.01	0.69		1581.81		1553.24		0.01	0.02	1553.27	
481	K				40.41		1.9394		2.490				78272.03
		3.611	0.34	-0.44		7574.81		7438.00		0.40	0.10	7438.50	
72012	M				40.52		1.9390		2.513				85710.53
		1.141	0.01	0.53		-4229.17		-4152.80		0.22	0.03	-4152.55	
72011	M				40.55		1.9410		2.526				81557.99
		2.266	0.01	1.35		-5300.24		-5204.53		0.42	0.06	-5204.05	
486	K				40.64		1.9437		2.550				76353.95
		1.152	0.18	-0.60		6071.17		5961.55		0.21	0.03	5961.79	
487	K				40.68		1.9427		2.562				82315.74
		2.022	0.21	0.63		689.46		677.01		0.43	0.06	677.50	
69006	K				40.75		1.9441		2.587				82993.22
		1.341	0.02	0.20		-1230.24		-1208.03		0.24	0.04	-1207.75	
489	K				40.80		1.9442		2.601				81785.47
		1.993	-0.05	0.69		-360.20		-353.70		0.42	0.05	-353.23	
491	K				40.86		1.9450		2.625				81432.24
		0.580	0.23	0.57		7953.72		7810.11		0.08	0.02	7810.21	
492	K				40.88		1.9439		2.629				89242.45
		2.072	0.04	-0.71		2544.12		2498.18		0.35	0.06	2498.59	
494	K				40.96		1.9449		2.649				91741.04
		2.326	0.15	-0.97		8855.71		8695.82		0.42	0.06	8696.30	
496	K				41.04		1.9452		2.673				100437.35
		1.763	0.07	1.30		242.32		237.94		0.17	0.05	238.16	
63005	K				41.09		1.9467		2.683				100675.51
		1.206	0.03	-0.59		4443.90		4363.67		0.04	0.03	4363.74	
498	K				41.12		1.9472		2.685				105039.25
		1.270	-0.04	-0.18		4858.39		4770.68		0.10	0.03	4770.81	
499	K				41.15		1.9461		2.691				109810.07
		2.210	0.02	-1.72		5851.33		5745.70		0.24	0.06	5746.00	
500	K				41.23		1.9471		2.705				115556.06
		1.824	0.44	0.85		5991.40		5883.24		0.26	0.05	5883.55	
501	K				41.30		1.9483		2.719				121439.61
		1.912	-0.41	1.76		-16044.70		-15755.11		0.04	0.05	-15755.02	
502	K				41.34		1.9537		2.722				105684.60
		2.688	-0.22	-0.54		-18686.76		-18349.60		0.19	0.07	-18349.34	
503	K				41.42		1.9598		2.732				87335.26
		1.567	0.18	0.60		2072.04		2034.66		0.25	0.04	2034.95	
505	K				41.48		1.9623		2.747				89370.22
		1.527	-0.07	-0.27		1894.00		1859.84		0.29	0.04	1860.17	
507	K				41.52		1.9632		2.764				91230.39
		2.077	-0.04	0.19		3736.38		3668.98		0.31	0.06	3669.35	
71001	K				41.58		1.9621		2.782				94899.74
		0.088	0.01	0.18		-836.70		-821.61		0.01	0.00	-821.60	
508	K				41.58		1.9623		2.782				94078.14
		67.549	2.12	3.80		21327.59		20942.26		9.08	1.83	20953.17	

28 B MÄNTYHARJU-KALVITSA 1982.69

508	K				41.58		1.9623		2.782				94078.14
		2.230	-0.14	-0.16		-2292.13		-2250.79		0.31	0.06	-2250.42	
71007	K				41.67		1.9655		2.800				91827.71
		2.105	0.06	-0.59		1226.84		1204.73		0.38	0.06	1205.17	
512	K				41.74		1.9698		2.822				93032.88
		0.892	-0.32	-0.14		-8372.14		-8221.21		0.18	0.02	-8221.01	
57050	K				41.77		1.9744		2.833				84811.87
		1.989	-0.03	1.07		5488.94		5390.00		0.39	0.05	5390.44	
514	K				41.84		1.9753		2.855				90202.32

1	2	3	4	5	6	7	8	9	10	11	12	13	14
514	K				41.84		1.9753		2.855				90202.32
		0.971	0.20	-0.77		4745.63		4660.09		0.20	0.03	4660.32	
515	K				41.88		1.9748		2.866				94862.63
		0.903	0.60	-0.66		8887.32		8727.12		0.08	0.02	8727.22	
72003	K				41.91		1.9747		2.871				103589.86
		0.770	0.59	-0.92		8280.59		8131.32		0.03	0.02	8131.37	
72004	K				41.94		1.9741		2.873				111721.23
		2.359	1.39	-0.53		14039.63		13786.58		0.19	0.06	13786.83	
518	K				42.01		1.9775		2.884				125508.06
		0.526	0.01	-0.18		484.93		476.19		0.06	0.01	476.26	
72005	K				42.02		1.9783		2.887				125984.34
		2.540	0.12	0.83		-11769.02		-11556.96		0.34	0.07	-11556.55	
521	K				42.12		1.9843		2.906				114427.78
		1.616	-0.42	-0.41		-6781.75		-6659.58		0.16	0.04	-6659.38	
39090	K				42.17		1.9878		2.916				107768.40
		1.226	0.26	0.07		6309.58		6195.93		0.13	0.03	6196.09	
523	K				42.21		1.9894		2.923				113964.49
		2.730	0.00	0.94		8929.12		8768.31		0.08	0.07	8768.46	
524	K				42.28		1.9916		2.928				122732.96
		0.070	0.00	0.18		72.09		70.79		0.00	0.00	70.79	
65026	K				42.28		1.9916		2.928				122803.75
		0.799	-0.19	-0.92		-332.17		-326.18		0.05	0.02	-326.11	
525	K				42.31		1.9934		2.931				122477.63
		1.568	-0.47	-0.81		-5265.88		-5171.07		0.24	0.04	-5170.79	
526	M				42.36		1.9968		2.945				117306.86
		1.340	0.75	-1.38		8465.60		8313.19		0.19	0.04	8313.42	
527	K				42.41		1.9969		2.956				125620.27
		1.738	1.72	-0.15		12565.09		12338.89		0.29	0.05	12339.23	
67008	K				42.48		1.9973		2.972				137959.49
		1.882	0.45	0.54		-16182.44		-15891.17		0.26	0.05	-15890.86	
529	K				42.55		2.0038		2.987				122068.63
		1.559	0.19	1.12		-6802.06		-6679.66		0.09	0.04	-6679.53	
530	K				42.59		2.0078		2.992				115389.11
		2.017	-0.99	1.12		4507.65		4426.55		0.15	0.06	4426.76	
531	K				42.65		2.0090		3.001				119815.86
		1.749	0.17	1.15		862.64		847.12		0.16	0.05	847.33	
60201	M				42.71		2.0122		3.010				120663.18
		0.969	-0.04	0.80		-22.87		-22.46		0.11	0.03	-22.32	
39089	K				42.74		2.0130		3.016				120640.86
		1.959	-0.05	1.54		-8171.16		-8024.20		0.10	0.05	-8024.05	
66056	M				42.79		2.0167		3.022				112616.82
		1.956	-0.18	0.78		-7788.17		-7648.13		0.22	0.05	-7647.86	
536	K				42.86		2.0213		3.035				104968.96
		3.127	-0.13	1.53		-4434.79		-4355.07		0.00	0.09	-4354.98	
538	K				42.93		2.0247		3.035				100613.98
		0.973	0.19	0.29		1216.46		1194.60		-0.14	0.03	1194.49	
539A	M				42.93		2.0245		3.027				101808.47
		3.014	-0.18	-0.92		360.60		354.12		-0.55	0.08	353.65	
79006	K				42.89		2.0242		2.995				102162.12
		0.996	0.08	-0.35		-5621.79		-5520.73		-0.17	0.03	-5520.87	
543	K				42.88		2.0252		2.985				96641.24
		1.698	0.72	0.21		-13930.65		-13680.28		-0.12	0.05	-13680.35	
39088	S				42.90		2.0289		2.978				82960.89
		2.766	0.70	-1.51		8771.89		8614.25		0.31	0.08	8614.64	
546	M				42.99		2.0300		2.996				91575.54
		2.064	0.92	0.64		17420.29		17107.24		0.40	0.06	17107.70	
39086/47	M				43.07		2.0294		3.019				108683.23
		1.288	0.16	-0.22		3436.37		3374.62		0.23	0.04	3374.89	
548	K				43.12		2.0298		3.032				112058.12
		1.302	0.38	0.52		13454.36		13212.58		0.19	0.04	13212.81	
549	M				43.17		2.0290		3.043				125270.93
		1.853	1.11	-0.37		7799.77		7659.60		0.25	0.05	7659.90	
550	K				43.23		2.0300		3.058				132930.84
		2.545	0.63	-2.06		1282.01		1258.99		0.37	0.07	1259.43	
551	M				43.33		2.0328		3.080				134190.26
		0.809	-0.96	-0.34		-9179.63		-9014.72		0.12	0.02	-9014.58	
552	K				43.36		2.0366		3.087				125175.68

1	2	3	4	5	6	7	8	9	10	11	12	13	14
552	K				43.36		2.0366		3.087				125175.68
		1.128	0.11	0.62		-2540.41		-2494.78		0.15	0.03	-2494.60	
62050	K				43.40		2.0397		3.095				122681.08
		1.995	0.18	-0.06		484.35		475.66		0.34	0.05	476.05	
555	K				43.47		2.0414		3.115				123157.13
		1.345	0.49	0.22		11181.71		10980.90		0.25	0.04	10981.19	
556	K				43.52		2.0400		3.130				134138.32
		1.743	-0.20	-0.02		-7467.21		-7333.11		0.32	0.05	-7332.74	
557	M				43.59		2.0416		3.148				126805.59
		2.112	0.52	-2.18		-1800.74		-1768.40		0.38	0.06	-1767.96	
62052	K				43.66		2.0430		3.170				125037.63
		0.993	0.79	-0.60		-5292.17		-5197.15		0.17	0.03	-5196.95	
559	K				43.70		2.0447		3.180				119840.67
		70.214	9.19	-2.08		26226.29		25753.72		6.89	1.92	25762.53	

28 C KALVITSA-HAUKIVUORI 1982.74

559	K				43.70		2.0447		3.180				119840.67
		1.463	0.86	-0.28		-2123.04		-2084.92		0.29	0.04	-2084.59	
560	K				43.76		2.0461		3.197				117756.08
		1.600	0.21	-0.46		-99.11		-97.33		0.35	0.04	-96.94	
561	K				43.81		2.0472		3.217				117659.16
		0.630	0.18	-0.28		5492.41		5393.80		0.13	0.02	5393.95	
562	K				43.84		2.0465		3.224				123053.10
		1.687	0.10	-0.59		3941.40		3870.64		0.33	0.05	3871.02	
563	K				43.90		2.0469		3.244				126924.11
		2.446	0.12	0.31		337.01		330.95		0.49	0.07	331.51	
71003	R				43.99		2.0480		3.272				127255.62
		2.130	0.53	0.94		5005.43		4915.57		0.42	0.06	4916.05	
566	M				44.07		2.0472		3.296				132171.67
		1.222	0.24	0.36		-6923.01		-6798.73		0.26	0.03	-6798.44	
62053	M				44.11		2.0482		3.311				125373.23
		1.140	0.22	-0.45		-2740.43		-2691.24		0.26	0.03	-2690.95	
568	M				44.15		2.0484		3.326				122682.28
		1.551	0.20	-0.62		-9714.63		-9540.25		0.35	0.04	-9539.86	
62054	M				44.19		2.0512		3.346				113142.43
		0.132	-0.01	-0.02		-130.71		-128.36		-0.02	0.00	-128.38	
569	R				44.19		2.0511		3.345				113014.06
		1.236	0.13	-0.42		-2519.37		-2474.15		0.28	0.03	-2473.84	
570	K				44.22		2.0534		3.361				110540.23
		1.922	-0.02	-0.62		725.76		712.74		0.42	0.05	713.21	
39084	M				44.29		2.0549		3.385				111253.44
		1.502	-0.11	0.18		-6895.19		-6771.46		0.31	0.04	-6771.11	
572	P				44.35		2.0570		3.403				104482.34
		2.592	0.29	-0.14		3044.76		2990.14		0.43	0.07	2990.64	
573	M				44.44		2.0570		3.428				107472.98
		1.385	0.05	0.34		-4144.02		-4069.67		0.26	0.04	-4069.37	
62055	M				44.50		2.0588		3.443				103403.60
		1.666	0.15	0.90		496.07		487.17		0.29	0.05	487.51	
575	K				44.56		2.0602		3.460				103891.10
		24.304	3.14	-0.85		-16246.66		-15955.09		4.85	0.66	-15949.58	

28 D HAUKIVUORI-PIEKSÄMÄKI 1982.84

575	K				44.56		2.0602		3.460				103891.10
		1.634	0.07	1.16		4233.65		4157.69		0.25	0.04	4157.98	
576	M				44.62		2.0601		3.475				108049.08
		2.438	0.12	0.19		9896.01		9718.46		0.39	0.07	9718.92	
577	M				44.71		2.0582		3.497				117768.00
		1.100	0.66	0.09		9772.63		9597.28		0.22	0.03	9597.53	
578	P				44.75		2.0563		3.510				127365.53
		0.850	-0.21	0.57		-7189.73		-7060.72		0.19	0.02	-7060.51	
579	M				44.77		2.0582		3.521				120305.03
		1.033	-0.10	-0.08		-1203.20		-1181.61		0.21	0.03	-1181.37	
580	K				44.81		2.0589		3.533				119123.66

1	2	3	4	5	6	7	8	9	10	11	12	13	14
580	K				44.81		2.0589		3.533				119123.66
		1.427	-0.14	-0.04		-2875.61		-2824.02		0.27	0.04	-2823.71	
62056	M				44.86		2.0600		3.549				116299.95
		2.510	0.08	-0.44		-4643.65		-4560.35		0.35	0.07	-4559.93	
51127	M				44.95		2.0620		3.569				111740.02
		1.938	0.25	-0.08		-802.59		-788.20		0.30	0.05	-787.85	
585	K				45.03		2.0626		3.587				110952.16
		0.880	-0.08	-0.52		-69.44		-68.19		0.16	0.02	-68.01	
51126	M				45.06		2.0627		3.596				110884.16
		0.854	0.17	0.91		3182.47		3125.38		0.18	0.02	3125.58	
39082	M				45.09		2.0619		3.606				114009.74
		2.469	0.20	0.44		487.83		479.08		0.56	0.07	479.71	
51125	M				45.17		2.0608		3.639				114489.45
		1.518	0.36	0.22		6796.69		6674.76		0.32	0.04	6675.12	
589	M				45.23		2.0599		3.658				121164.57
		1.565	0.23	0.53		3995.10		3923.42		0.28	0.04	3923.74	
62057	M				45.29		2.0593		3.674				125088.32
		0.920	0.06	0.01		1175.69		1154.60		0.17	0.03	1154.80	
62058	M				45.32		2.0592		3.684				126243.11
		2.507	0.83	0.62		9381.99		9213.66		0.54	0.07	9214.27	
82205	K				45.41		2.0575		3.715				135457.38
		0.109	-0.02	-0.05		-688.59		-676.24		0.03	0.00	-676.21	
60015	K				45.41		2.0569		3.717				134781.17
		0.603	-0.34	0.01		-6522.42		-6405.39		0.11	0.02	-6405.26	
593	K				45.44		2.0583		3.723				128375.90
		24.355	2.14	3.54		24926.81		24479.60		4.53	0.66	24484.79	

29.1 A PIEKSÄMÄKI-KALLISLAHTI 1983.70

593	K				45.44		2.0583		3.723				128375.90
		0.896	-0.04	-0.11		-5548.90		-5449.35		0.16	-0.04	-5449.23	
63004	M				45.47		2.0597		3.733				122926.67
		1.124	-0.17	0.25		-3334.71		-3274.88		0.18	0.01	-3274.69	
69025	P				45.51		2.0608		3.744				119651.98
		0.633	-0.12	0.16		710.41		697.66		0.10	0.01	697.77	
596	M				45.53		2.0612		3.750				120349.75
		0.849	0.05	0.42		3407.89		3346.75		-0.01	0.00	3346.74	
52101	K				45.55		2.0608		3.749				123696.49
		0.938	-0.09	-0.20		-3689.26		-3623.08		-0.17	0.00	-3623.25	
83214	M				45.54		2.0615		3.739				120073.23
		0.424	0.05	0.03		1500.05		1473.14		-0.08	0.00	1473.06	
83215	M				45.54		2.0611		3.734				121546.28
		0.905	0.06	-0.37		1792.74		1760.58		-0.16	0.00	1760.42	
83216	P				45.53		2.0608		3.724				123306.70
		0.519	0.02	-0.09		-220.08		-216.13		-0.09	0.00	-216.22	
52102	M				45.53		2.0608		3.719				123090.48
		2.012	0.49	-0.05		9991.75		9812.50		-0.35	-0.01	9812.14	
52103	K				45.51		2.0592		3.697				132902.63
		1.745	0.28	-0.59		11258.57		11056.57		-0.27	-0.01	11056.29	
52104	K				45.51		2.0576		3.680				143958.93
		2.145	0.14	-0.22		-6969.99		-6844.94		-0.40	-0.01	-6845.35	
52105	K				45.49		2.0595		3.656				137113.58
		1.696	-0.06	-1.15		-13526.90		-13284.24		-0.32	-0.01	-13284.57	
52106	K				45.47		2.0621		3.637				123829.01
		1.605	0.11	0.30		3193.83		3136.54		-0.29	0.00	3136.25	
67013	K				45.46		2.0620		3.619				126965.26
		2.516	0.14	-1.39		-21092.28		-20713.96		-0.49	-0.01	-20714.46	
52108	M				45.42		2.0651		3.589				106250.81
		1.869	0.11	0.45		3056.29		3001.47		-0.36	-0.01	3001.10	
52109	M				45.40		2.0614		3.567				109251.92
		1.903	-0.08	0.04		-7341.39		-7209.70		-0.39	-0.01	-7210.10	
52110	K				45.37		2.0602		3.543				102041.83
		2.772	0.19	-1.23		-704.84		-692.19		-0.60	-0.01	-692.80	
52111	M				45.31		2.0568		3.506				101349.02
		2.532	0.21	-0.77		-1254.66		-1232.15		-0.37	-0.01	-1232.53	
2354	K				45.28		2.0565		3.483				100116.50

1	2	3	4	5	6	7	8	9	10	11	12	13	14
2354	K				45.28		2.0565		3.483				100116.50
		2.231	-0.12	-1.02		-5505.74		-5406.94		-0.40	-0.01	-5407.35	
52112	M				45.23		2.0557		3.458				94709.16
		3.996	0.53	0.23		3898.46		3828.49		-0.88	-0.01	3827.60	
52113	M				45.14		2.0515		3.404				98536.76
		1.542	-0.09	0.04		-3792.33		-3724.27		-0.32	0.00	-3724.59	
52114	M				45.11		2.0505		3.385				94812.17
		0.779	0.04	-0.61		5254.44		5160.13		-0.13	0.00	5160.00	
2358	M				45.11		2.0491		3.377				99972.16
		2.279	-1.25	-1.30		-13466.18		-13224.47		-0.39	-0.01	-13224.87	
52115	K				45.08		2.0532		3.353				86747.30
		1.905	0.18	-1.15		862.64		847.16		-0.42	-0.01	846.73	
52116	M				45.04		2.0525		3.327				87594.03
		1.853	0.26	-0.53		766.31		752.56		-0.41	-0.01	752.14	
52117	M				44.99		2.0515		3.301				88346.17
		1.892	0.03	0.50		5449.83		5352.00		-0.27	-0.01	5351.72	
2362	K				44.97		2.0492		3.285				93697.89
		2.006	-0.71	1.05		-12315.92		-12094.86		-0.40	-0.01	-12095.27	
52118	M				44.92		2.0521		3.261				81602.62
		1.944	0.15	-0.34		-723.96		-710.96		-0.44	-0.01	-711.41	
52119	M				44.86		2.0546		3.233				80891.22
		2.232	0.16	-0.69		-1115.31		-1095.30		-0.51	-0.01	-1095.82	
52120	M				44.81		2.0556		3.202				79795.41
		1.631	0.01	-0.72		-4112.55		-4038.76		-0.37	0.00	-4039.13	
52121	M				44.76		2.0561		3.179				75756.27
		2.276	1.10	1.86		12066.62		11850.09		-0.52	-0.01	11849.56	
52122	M				44.70		2.0544		3.147				87605.83
		2.034	0.23	-0.31		6586.76		6468.55		-0.46	-0.01	6468.08	
52123	M				44.66		2.0523		3.119				94073.91
		2.080	0.79	-0.62		4065.96		3992.99		-0.47	-0.01	3992.51	
52124	M				44.61		2.0520		3.090				98066.42
		1.782	0.34	-0.31		1644.34		1614.83		-0.40	-0.01	1614.42	
52125	M				44.58		2.0504		3.065				99680.85
		2.195	0.65	-1.58		10263.37		10079.13		-0.49	-0.01	10078.63	
52126	K				44.54		2.0475		3.035				109759.48
		2.010	-0.23	-0.84		-8563.44		-8409.73		-0.46	-0.01	-8410.20	
52127	M				44.51		2.0498		3.007				101349.29
		2.177	0.77	-1.36		4644.37		4561.00		-0.50	-0.01	4560.49	
52128	M				44.46		2.0481		2.976				105909.79
		1.877	0.19	-1.38		-5291.63		-5196.64		-0.42	-0.01	-5197.07	
52129	M				44.43		2.0483		2.950				100712.72
		1.910	0.19	-1.11		-8644.46		-8489.28		-0.44	-0.01	-8489.73	
52130	K				44.39		2.0484		2.923				92223.00
		2.018	-0.02	-1.02		-3375.32		-3314.73		-0.48	-0.01	-3315.22	
52131	M				44.35		2.0489		2.894				88907.78
		2.066	0.03	1.36		-148.43		-145.78		-0.49	-0.01	-146.28	
52132	M				44.31		2.0464		2.864				88761.51
		2.026	0.10	-0.41		-5259.40		-5164.98		-0.48	-0.01	-5165.47	
52133	M				44.26		2.0473		2.834				83596.04
		1.982	0.10	0.98		-1119.13		-1099.04		-0.47	-0.01	-1099.52	
52134	K				44.21		2.0483		2.805				82496.52
		1.955	-0.70	2.04		-4508.70		-4427.78		-0.46	-0.01	-4428.25	
52135	K				44.18		2.0501		2.777				78068.28
		1.957	1.27	1.10		6967.12		6842.06		-0.46	-0.01	6841.59	
52136	M				44.14		2.0486		2.749				84909.87
		2.229	0.19	0.38		-809.97		-795.43		-0.52	-0.01	-795.96	
52137	M				44.10		2.0500		2.717				84113.91
		1.539	0.36	0.36		9936.91		9758.53		-0.36	0.00	9758.17	
52138	K				44.07		2.0479		2.695				93872.08
		2.231	0.71	2.19		10336.64		10151.06		-0.51	-0.01	10150.54	
52139	K				44.03		2.0454		2.664				104022.62
		2.188	-0.45	2.63		15549.32		15270.13		-0.51	-0.01	15269.61	
52140	M				43.98		2.0438		2.632				119292.24
		2.112	1.05	-0.39		9189.42		9024.41		-0.49	-0.01	9023.91	
52141	M				43.94		2.0416		2.602				128316.15

1	2	3	4	5	6	7	8	9	10	11	12	13	14
52141	M				43.94		2.0416		2.602				128316.15
		1.943	-0.90	-2.05		-5579.45		-5479.25		-0.38	-0.01	-5479.64	
2391	K				43.89		2.0430		2.578				122836.51
		93.960	6.25	-7.54		-5620.91		-5520.48		-18.62	-0.40	-5539.50	

29.1 B KALLISLAHTI-SAVONLINNA 1984.75

2391	K				43.89		2.0430		2.578				122836.51
		1.474	-0.51	0.81		-20275.50		-19911.45		-0.29	0.00	-19911.74	
52142	K				43.86		2.0464		2.560				102924.77
		2.067	-0.34	-1.60		-21119.10		-20740.00		-0.42	-0.01	-20740.43	
52143	K				43.83		2.0519		2.532				82184.34
		1.982	-0.13	-0.24		-3625.07		-3560.03		-0.33	-0.01	-3560.37	
52144	K				43.83		2.0561		2.511				78623.98
		1.980	-0.05	-0.06		2119.87		2081.83		-0.36	-0.01	2081.46	
52145	K				43.81		2.0547		2.487				80705.45
		1.837	0.07	-0.76		451.32		443.22		-0.38	-0.01	442.83	
52146	M				43.77		2.0552		2.463				81148.29
		1.986	0.12	1.08		5368.18		5271.85		-0.36	-0.01	5271.48	
52147	M				43.75		2.0548		2.439				86419.77
		1.576	-0.15	0.54		-3589.82		-3525.40		-0.26	0.00	-3525.66	
83213	K				43.74		2.0561		2.422				82894.10
		2.148	-0.14	-3.37		-2216.05		-2176.28		-0.33	-0.01	-2176.62	
61001	K				43.73		2.0565		2.400				80717.49
		1.054	-0.08	-0.69		3817.33		3748.84		-0.12	-0.56	3748.16	
18	K				43.73		2.0562		2.392				84465.66
		0.627	0.06	-0.51		-5641.83		-5540.60		-0.11	-0.08	-5540.79	
SKP43	P				43.72		2.0570		2.385				78924.87
		0.680	0.09	0.25		-1605.19		-1576.39		-0.10	0.19	-1576.30	
2401	K				43.70		2.0567		2.378				77348.58
		17.411	-1.06	-4.55		-46315.85		-45484.39		-3.06	-0.51	-45487.96	

29.1 C SAVONLINNA 1984.70

2401	K				43.70		2.0567		2.378				77348.58
		1.496	0.02	-0.19		8453.59		8301.90		-0.26	0.02	8301.66	
101	K				43.68		2.0547		2.361				85650.23
		0.704	0.05	0.05		-1238.62		-1216.39		-0.12	0.97	-1215.54	
112	K				43.67		2.0549		2.353				84434.69
		0.693	0.10	-1.20		-3650.63		-3585.13		-0.14	-0.84	-3586.11	
64010	K				43.66		2.0547		2.344				80848.58
		0.613	-0.02	-0.59		3805.86		3737.56		-0.11	-0.29	3737.16	
SKKP	K				43.65		2.0531		2.337				84585.73
		0.797	0.52	-0.37		7705.97		7567.66		-0.12	-0.38	7567.16	
67012	K				43.65		2.0508		2.329				92152.88
		4.303	0.67	-2.30		15076.16		14805.60		-0.75	-0.52	14804.33	

29.2 A SAVONLINNA-KULENNOINEN 1984.43

67012	K				43.65		2.0508		2.329				92152.88
		0.641	-0.32	-0.10		-2909.49		-2857.27		-0.12	0.75	-2856.64	
179	K				43.64		2.0511		2.321				89296.24
		0.445	-0.69	0.54		-4786.80		-4700.88		-0.07	0.00	-4700.95	
55013	M				43.64		2.0520		2.316				84595.29
		1.541	-0.10	0.59		-790.59		-776.40		-0.15	0.00	-776.55	
2404	K				43.65		2.0535		2.306				83818.75
		2.512	0.23	-0.62		1607.05		1578.21		-0.23	-0.01	1577.97	
77001	R				43.68		2.0533		2.292				85396.72
		2.949	1.42	-3.30		29109.18		28586.66		-0.42	-0.01	28586.23	
2406	M				43.67		2.0460		2.265				113982.95
		2.052	0.38	-1.88		4130.07		4055.92		-0.38	-0.01	4055.53	
78001	K				43.64		2.0441		2.240				118038.48
		1.981	-0.76	-1.23		-19797.05		-19441.60		-0.35	-0.01	-19441.96	
78011	M				43.59		2.0471		2.218				98596.54

1	2	3	4	5	6	7	8	9	10	11	12	13	14
78011	M				43.59		2.0471		2.218				98596.54
		2.003	-0.03	-1.71		-9274.71		-9108.20		-0.37	-0.01	-9108.58	
2409	M				43.55		2.0473		2.194				89487.95
		2.247	-0.80	-1.78		-13058.83		-12824.40		-0.35	-0.01	-12824.76	
78010	K				43.53		2.0489		2.171				76663.19
		16.371	-0.67	-9.49		-15771.16		-15487.95		-2.44	0.69	-15489.70	

29.2 B KULENNOINEN-PUNKAHARJU 1983.60

78010	K				43.53		2.0489		2.171				76663.19
		1.662	0.17	-0.15		4632.70		4549.54		-0.32	0.00	4549.22	
83212	K				43.49		2.0468		2.152				81212.41
		2.145	-0.07	0.30		-3906.85		-3836.71		-0.42	-0.01	-3837.14	
2412	M				43.43		2.0465		2.126				77375.27
		1.882	0.43	0.12		4407.09		4327.97		-0.28	-0.01	4327.68	
83211	K				43.42		2.0454		2.109				81702.97
		0.036	0.00	0.01		-659.82		-647.97		0.00	0.00	-647.97	
75002	K				43.42		2.0455		2.109				81054.99
		5.725	0.53	0.28		4473.12		4392.83		-1.02	-0.02	4391.79	

29.2 C PUNKAHARJU-SÄRKISALMI 1983.45

75002	K				43.42		2.0455		2.109				81054.99
		2.116	0.14	0.49		-2592.33		-2545.78		-0.41	-0.01	-2546.20	
2414	M				43.37		2.0453		2.085				78508.79
		2.242	-0.13	-1.05		-457.09		-448.88		-0.34	-0.01	-449.23	
2415	S				43.29		2.0441		2.064				78059.56
		1.958	0.07	-1.24		2440.61		2396.79		-0.36	-0.01	2396.42	
75003	M				43.25		2.0439		2.042				80455.99
		2.185	-0.11	-1.31		1183.32		1162.08		-0.39	-0.01	1161.68	
52148	K				43.17		2.0429		2.019				81617.68
		1.954	0.06	-0.97		-1015.91		-997.66		-0.21	0.06	-997.81	
2418	K				43.10		2.0421		2.006				80619.87
		2.492	-0.27	1.33		-2550.08		-2504.29		-0.38	-1.51	-2506.18	
2419	K				43.01		2.0410		1.983				78113.69
		2.242	-0.02	-0.40		20567.12		20197.71		-0.39	-0.40	20196.92	
78009	K				42.95		2.0372		1.959				98310.61
		1.418	-0.12	-0.69		-2823.61		-2772.89		-0.15	0.00	-2773.04	
83210	K				42.90		2.0378		1.950				95537.57
		2.420	-0.32	0.48		1629.85		1600.57		-0.31	-0.01	1600.25	
2422	M				42.81		2.0363		1.931				97137.82
		2.260	-0.10	0.25		890.20		874.21		-0.35	-0.01	873.85	
83209	K				42.73		2.0351		1.910				98011.68
		2.208	0.05	1.76		-4654.58		-4570.96		-0.38	-0.01	-4571.35	
2424	M				42.65		2.0347		1.887				93440.33
		1.752	0.11	-1.05		-7854.75		-7713.63		-0.31	-0.01	-7713.95	
2425	M				42.59		2.0341		1.869				85726.38
		2.390	-2.40	-0.86		-14804.87		-14538.89		-0.40	-0.01	-14539.30	
76004	K				42.54		2.0345		1.845				71187.09
		27.637	-3.04	-3.26		-10042.11		-9861.62		-4.38	-1.94	-9867.94	

30.1 IMATRA-PARIKKALA 1983.41

38205	K				40.84		1.9772		1.699				78108.81
		0.903	-0.24	0.38		-4684.44		-4600.02		-0.07	-0.04	-4600.13	
208	R				40.85		1.9793		1.695				73508.69
		1.736	-0.09	0.11		-2692.08		-2643.57		0.15	-0.07	-2643.49	
AP1001	P				40.91		1.9821		1.704				70865.20
		1.010	0.18	-0.42		7744.54		7605.00		-0.02	-0.04	7604.94	
52308	K				40.92		1.9821		1.702				78470.15
		1.734	0.28	-0.04		7892.85		7750.63		0.10	-0.07	7750.66	
83205	S				40.98		1.9820		1.708				86220.81
		1.264	0.45	-0.08		9218.43		9052.33		-0.07	-0.05	9052.21	
83206	S				41.00		1.9820		1.704				95273.02

1	2	3	4	5	6	7	8	9	10	11	12	13	14
83206	S				41.00		1.9820		1.704				95273.02
		2.140	0.65	-0.35		9952.39		9773.07		0.13	-0.09	9773.11	
83207	K				41.07		1.9823		1.712				105046.13
		1.644	0.15	0.33		-5703.41		-5600.66		0.00	-0.07	-5600.73	
52309	K				41.11		1.9866		1.712				99445.41
		2.702	-0.18	-0.05		-768.92		-755.07		-0.12	-0.11	-755.30	
52310	K				41.15		1.9909		1.705				98690.11
		2.085	0.30	-0.23		4106.59		4032.64		-0.13	-0.08	4032.43	
52311	M				41.17		1.9933		1.697				102722.54
		1.808	0.54	-0.24		-1404.71		-1379.42		-0.19	-0.07	-1379.68	
52312	K				41.17		1.9942		1.685				101342.85
		2.298	0.07	-1.18		-3033.42		-2978.81		0.00	-0.09	-2978.90	
66013	M				41.22		1.9974		1.686				98363.95
		0.044	0.02	-0.05		-2123.75		-2085.52		0.01	0.00	-2085.51	
52313	M				41.22		1.9978		1.686				96278.44
		1.426	-0.01	-1.25		4343.90		4265.70		0.02	-0.06	4265.66	
66017	S				41.26		1.9979		1.687				100544.09
		2.240	0.12	0.04		-5824.86		-5720.02		0.22	-0.09	-5719.89	
52315	M				41.33		2.0019		1.700				94824.21
		2.374	0.66	0.50		9985.68		9805.97		0.05	-0.10	9805.92	
66035	K				41.39		2.0032		1.703				104630.14
		1.650	0.06	0.42		-1019.14		-1000.80		0.12	-0.07	-1000.75	
66036	K				41.45		2.0050		1.711				103629.38
		1.660	-0.05	-0.58		-4395.19		-4316.10		0.00	-0.07	-4316.17	
66037	K				41.48		2.0064		1.711				99313.23
		2.198	0.18	-0.11		3528.50		3465.00		-0.15	-0.09	3464.76	
66038	K				41.50		2.0056		1.702				102777.99
		1.776	-0.09	-0.29		-3670.35		-3604.31		-0.15	-0.07	-3604.53	
52320	K				41.51		2.0057		1.693				99173.46
		3.222	-0.01	-1.05		-971.87		-954.39		-0.04	-0.13	-954.56	
52322	M				41.57		2.0066		1.690				98218.90
		1.194	0.03	-0.86		-698.13		-685.57		0.01	-0.05	-685.61	
52323	K				41.60		2.0073		1.691				97533.29
		1.582	0.09	0.34		-171.96		-168.86		0.16	-0.06	-168.76	
AP1200	R				41.66		2.0085		1.701				97364.53
		3.986	-0.65	-0.86		-12344.49		-12122.42		0.21	-0.16	-12122.37	
52325	K				41.74		2.0125		1.714				85242.16
		1.654	-0.43	-0.35		-15142.13		-14869.79		0.10	-0.07	-14869.76	
52326	K				41.79		2.0163		1.720				70372.40
		0.940	-0.08	-0.13		-2672.12		-2624.07		-0.03	-0.04	-2624.14	
66012	K				41.80		2.0170		1.718				67748.26
		0.960	0.00	0.21		423.35		415.74		-0.10	0.47	416.11	
52157	K				41.80		2.0168		1.712				68164.38
		2.118	1.16	0.35		9944.64		9765.79		-0.01	1.04	9766.82	
52156	K				41.84		2.0153		1.711				77931.20
		2.930	1.18	0.77		23508.10		23085.29		0.14	-0.05	23085.38	
52155	K				41.93		2.0132		1.719				101016.58
		1.552	-0.68	-0.98		-15279.03		-15004.25		0.19	-0.58	-15004.64	
74010	M				41.99		2.0175		1.731				86011.94
		0.038	0.00	-0.09		-578.88		-568.47		0.00	-0.02	-568.49	
52154	M				41.99		2.0176		1.731				85443.45
		2.920	0.02	-0.04		-11271.12		-11068.45		0.09	-1.39	-11069.75	
52153	K				42.06		2.0198		1.736				74373.70
		2.178	0.14	-0.39		7870.73		7729.21		0.24	-1.66	7727.79	
65025	K				42.14		2.0198		1.751				82101.48
		2.024	-0.47	-0.05		-8740.00		-8582.87		0.13	-2.35	-8585.09	
52151	K				42.21		2.0221		1.759				73516.39
		2.184	0.31	0.96		5035.68		4945.16		0.27	0.46	4945.89	
52150	K				42.29		2.0239		1.775				78462.28
		62.174	3.61	-5.26		365.37		358.09		1.26	-5.92	353.44	

30.2 PARIKKALA-SÄRKISALMI 1983.44

52150	K				42.29		2.0239		1.775				78462.28
		2.478	0.26	-0.41		-4572.62		-4490.44		0.40	-0.10	-4490.14	
66002.3	P				42.37		2.0287		1.799				73972.14

1	2	3	4	5	6	7	8	9	10	11	12	13	14
66002.3	P				42.37		2.0287		1.799				73972.14
		0.952	0.06	0.47		631.81		620.46		0.15	-0.04	620.57	
2428	K				42.40		2.0296		1.808				74592.72
		2.366	0.09	0.31		1707.10		1676.42		0.35	-0.09	1676.68	
2427	M				42.49		2.0320		1.829				76269.38
		1.582	-0.40	1.08		-4490.40		-4409.72		0.26	-0.06	-4409.52	
83208	K				42.54		2.0344		1.845				71859.87
		0.018	0.00	0.01		-685.08		-672.78		0.00	0.00	-672.78	
76004	K				42.54		2.0345		1.845				71187.09
		7.396	0.01	1.46		-7409.20		-7276.06		1.16	-0.29	-7275.19	

31 A NOORMARKKU-HONKAJÄRVI 1989.38

52225	K				42.44		2.0012		5.587				41844.12
		0.023	0.00	0.05		507.66		498.52		0.00	0.00	498.52	
87209	K				42.44		2.0011		5.587				42342.64
		0.908	-0.04	0.74		-6469.34		-6352.90		0.09	-0.37	-6353.18	
51121	M				42.47		2.0026		5.596				35989.46
		1.514	-0.15	0.99		-3130.81		-3074.47		0.13	0.00	-3074.34	
52224	K				42.51		2.0033		5.608				32915.12
		2.096	-0.18	-0.21		-4862.57		-4775.06		0.23	0.00	-4774.83	
89101	S				42.55		2.0031		5.630				28140.28
		1.730	-0.56	0.44		-1323.83		-1300.01		0.20	0.00	-1299.81	
52222	K				42.60		2.0045		5.649				26840.46
		1.824	0.00	0.08		1321.59		1297.80		0.19	0.00	1297.99	
89102	K				42.63		2.0047		5.667				28138.46
		0.026	0.01	0.03		-979.86		-962.22		0.01	0.00	-962.21	
1725	K				42.63		2.0047		5.668				27176.25
		2.012	0.22	-1.69		2906.40		2854.10		0.22	0.00	2854.32	
52221	K				42.68		2.0040		5.688				30030.56
		1.602	0.00	1.73		1844.42		1811.23		0.17	0.00	1811.40	
52220	K				42.71		2.0039		5.704				31841.96
		1.148	-0.04	-0.74		2406.97		2363.66		0.12	0.00	2363.78	
52219	K				42.75		2.0042		5.716				34205.74
		2.270	-0.31	1.79		-9172.50		-9007.44		0.21	0.00	-9007.23	
1728	K				42.83		2.0046		5.735				25198.50
		1.026	-0.02	1.46		-451.35		-443.23		0.10	0.00	-443.13	
52218	M				42.87		2.0062		5.745				24755.37
		2.214	-0.03	-0.47		-240.54		-236.22		0.21	0.00	-236.01	
61090	M				42.95		2.0077		5.764				24519.36
		2.150	0.00	0.37		11419.63		11214.16		0.21	0.00	11214.37	
52216	K				43.03		2.0072		5.784				35733.72
		1.740	0.36	2.17		-1994.52		-1958.64		0.10	0.00	-1958.54	
52215	K				43.09		2.0070		5.793				33775.18
		1.846	0.27	3.30		-3488.91		-3426.14		0.17	0.00	-3425.97	
52214	M				43.16		2.0082		5.809				30349.21
		1.870	0.19	1.08		9004.83		8842.81		0.19	0.00	8843.00	
61091	K				43.21		2.0081		5.827				39192.21
		1.124	-0.19	0.24		-9624.11		-9450.97		0.12	0.00	-9450.85	
52212	M				43.25		2.0106		5.838				29741.35
		1.426	1.03	-0.11		6874.83		6751.15		0.14	0.00	6751.29	
52211	K				43.29		2.0106		5.851				36492.65
		1.860	-0.25	2.23		-3114.53		-3058.50		0.18	0.00	-3058.32	
61092	M				43.36		2.0130		5.868				33434.32
		1.646	0.02	-0.16		2758.60		2708.99		0.16	0.00	2709.15	
52209	M				43.41		2.0143		5.883				36143.47
		2.056	-0.28	1.98		-4405.08		-4325.85		0.13	0.00	-4325.72	
1737	M				43.48		2.0154		5.896				31817.75
		1.686	-0.14	-1.66		7701.93		7563.42		0.15	0.00	7563.57	
89103	M				43.54		2.0167		5.909				39381.31
		1.910	-0.04	-0.93		-3722.05		-3655.12		0.19	0.00	-3654.93	
61093	M				43.61		2.0191		5.927				35726.38
		1.526	-0.05	1.44		3622.59		3557.45		0.13	0.00	3557.58	
89104	M				43.66		2.0187		5.939				39283.96
		1.272	-0.07	-0.61		-1014.82		-996.57		0.12	0.00	-996.45	
52206	K				43.71		2.0202		5.951				38287.52

1	2	3	4	5	6	7	8	9	10	11	12	13	14
52206	K				43.71		2.0202		5.951				38287.52
		1.738	0.13	-0.18		496.54		487.61		0.15	0.00	487.76	
52205	K				43.77		2.0211		5.965				38775.26
		2.002	-0.01	1.78		3320.18		3260.49		0.18	0.00	3260.67	
1743	K				43.84		2.0223		5.982				42035.93
		1.984	0.25	1.63		5323.26		5227.56		0.13	0.00	5227.69	
52204	K				43.91		2.0231		5.995				47263.61
		1.700	0.09	-0.83		7220.33		7090.54		0.16	0.00	7090.70	
61094	M				43.97		2.0231		6.010				54354.31
		2.388	0.01	-0.27		-10422.75		-10235.41		0.25	0.00	-10235.16	
52202	K				44.06		2.0273		6.034				44119.14
		1.926	-0.02	-0.45		-787.11		-772.96		0.22	0.00	-772.74	
52201	K				44.12		2.0289		6.054				43346.40
		1.884	-0.16	1.00		2964.83		2911.55		0.21	0.00	2911.76	
51243	K				44.18		2.0294		6.074				46258.16
		0.096	-0.05	0.03		-2113.81		-2075.82		0.01	0.00	-2075.81	
51242	K				44.19		2.0302		6.075				44182.34
		0.108	-0.03	-0.23		-3653.09		-3587.45		0.01	0.00	-3587.44	
1748	M				44.19		2.0310		6.076				40594.90
		1.260	0.23	-0.28		3009.88		2955.79		0.15	0.00	2955.94	
89105	K				44.23		2.0309		6.091				43550.84
		1.580	0.23	1.28		2715.31		2666.52		0.19	0.00	2666.71	
61095	K				44.28		2.0315		6.108				46217.54
		57.171	0.42	17.02		4448.18		4368.37		5.53	-0.37	4373.53	

31 B HONKAJÄRVI-METSÄLÄ 1989.47

61095	K				44.28		2.0315		6.108				46217.54
		1.744	0.00	1.05		-2866.34		-2814.84		0.19	0.00	-2814.65	
61096	K				44.34		2.0332		6.127				43402.89
		1.302	0.21	2.04		1311.28		1287.72		0.15	0.00	1287.87	
89106	K				44.39		2.0346		6.141				44690.76
		1.164	-0.01	0.93		-3787.95		-3719.90		0.14	0.00	-3719.76	
60014	K				44.43		2.0365		6.154				40971.00
		1.580	-0.29	-0.49		-5287.49		-5192.51		0.19	0.00	-5192.32	
89107	K				44.49		2.0392		6.172				35778.68
		0.097	-0.03	-0.17		-2511.28		-2466.18		0.01	0.00	-2466.17	
51239	K				44.49		2.0397		6.173				33312.50
		5.887	-0.12	3.36		-13141.78		-12905.71		0.68	0.00	-12905.03	

31 C METSÄLÄ-KRISTIINANKAUPUNKI 1989.66

51239	K				44.49		2.0397		6.173				33312.50
		2.216	-0.75	0.62		-7973.69		-7830.49		0.24	0.00	-7830.25	
51238	K				44.56		2.0432		6.197				25482.26
		2.408	0.15	3.00		6707.56		6587.12		0.23	0.00	6587.35	
60013	K				44.64		2.0442		6.219				32069.60
		1.464	-0.20	1.98		-11062.55		-10863.94		0.16	0.00	-10863.78	
51237	K				44.70		2.0486		6.234				21205.82
		1.244	-0.03	-0.44		1830.96		1798.09		0.09	0.00	1798.18	
89108	K				44.74		2.0492		6.243				23004.00
		1.748	0.05	1.01		1891.73		1857.78		0.21	0.00	1857.99	
89109	K				44.80		2.0511		6.263				24861.99
		1.543	-0.23	-0.40		-3148.17		-3091.67		0.19	0.00	-3091.48	
89110A	K				44.86		2.0534		6.282				21770.50
		1.332	0.36	-0.10		5648.86		5547.49		0.15	0.00	5547.64	
51235	K				44.91		2.0542		6.297				27318.14
		2.216	0.03	0.55		-6498.71		-6382.10		0.27	0.00	-6381.83	
89111	K				44.99		2.0584		6.323				20936.31
		1.842	-0.42	-1.04		-7329.36		-7197.88		0.17	0.00	-7197.71	
89112	K				45.06		2.0621		6.339				13738.59
		2.132	-0.04	1.64		-278.09		-273.10		0.21	0.00	-272.89	
89113	K				45.14		2.0629		6.360				13465.71
		2.034	-0.11	-0.33		2297.51		2256.30		0.23	0.00	2256.53	
51232	K				45.21		2.0629		6.382				15722.23

1	2	3	4	5	6	7	8	9	10	11	12	13	14
51232	K				45.21		2.0629		6.382				15722.23
		1.894	0.10	-0.23		-4298.45		-4221.35		0.20	0.00	-4221.15	
1761	M				45.28		2.0654		6.402				11501.08
		1.266	-0.02	-0.48		-4123.98		-4050.02		0.12	0.00	-4049.90	
89114	S				45.30		2.0668		6.413				7451.18
		2.220	-0.14	0.16		-1301.36		-1278.02		0.27	0.00	-1277.75	
51231	K				45.35		2.0687		6.440				6173.41
		1.328	0.53	-0.47		7944.96		7802.49		0.14	0.00	7802.63	
51230	M				45.37		2.0676		6.454				13976.04
		1.966	-0.18	-0.32		5662.25		5560.71		0.14	0.00	5560.85	
51229	K				45.37		2.0673		6.467				19536.89
		1.114	-0.04	1.28		710.05		697.31		0.08	0.00	697.39	
89116	K				45.37		2.0673		6.475				20234.28
		0.824	0.21	1.80		-7653.39		-7516.15		0.10	0.00	-7516.05	
1765	K				45.38		2.0693		6.485				12718.22
		1.598	-0.15	0.23		-4696.95		-4612.73		0.17	0.00	-4612.56	
89115	K				45.41		2.0700		6.502				8105.65
		1.758	0.19	-0.54		2456.95		2412.90		0.14	0.00	2413.04	
54	K				45.46		2.0700		6.515				10518.70
		1.960	0.06	-1.02		13679.07		13433.79		0.11	0.00	13433.90	
1769	K				45.52		2.0681		6.526				23952.59
		1.540	-0.03	0.67		5787.93		5684.14		0.14	0.00	5684.28	
1770	K				45.58		2.0671		6.540				29636.87
		37.647	-0.66	7.57		-3746.87		-3679.32		3.76	0.00	-3675.56	

31 D KRISTIINANKAUPUNKI-NÄRPIÖ 1989.70

1770	K				45.58		2.0671		6.540				29636.87
		1.654	-0.11	-0.69		595.61		584.93		0.18	0.00	585.11	
1771	M				45.64		2.0664		6.557				30221.98
		1.736	0.23	-1.57		351.47		345.16		0.18	0.00	345.34	
1772	M				45.70		2.0666		6.574				30567.31
		1.170	-0.02	-0.61		207.75		204.02		0.09	0.00	204.11	
51228	M				45.74		2.0660		6.583				30771.42
		0.760	-0.88	0.29		-5400.28		-5303.44		0.07	0.00	-5303.37	
51227	M				45.77		2.0669		6.589				25468.05
		1.144	-0.08	-1.08		-418.83		-411.32		0.14	0.00	-411.18	
89117	K				45.80		2.0666		6.603				25056.87
		1.016	-0.45	1.27		-16138.88		-15849.48		0.11	0.00	-15849.37	
51215	M				45.83		2.0695		6.614				9207.50
		1.554	-0.11	0.48		-1003.09		-985.11		0.18	0.00	-984.93	
89118	K				45.88		2.0680		6.631				8222.56
		0.364	-0.03	-0.37		-1489.05		-1462.34		0.04	0.00	-1462.30	
89122	K				45.89		2.0674		6.635				6760.26
		1.128	-0.08	0.68		15869.11		15584.50		0.13	0.00	15584.63	
89119	K				45.92		2.0631		6.648				22344.89
		1.205	0.14	1.38		-4706.08		-4621.67		0.15	0.00	-4621.52	
51212	K				45.96		2.0629		6.662				17723.37
		1.056	-0.04	0.19		-7273.51		-7143.04		0.11	0.00	-7142.93	
89121	M				45.99		2.0641		6.673				10580.44
		1.226	-0.02	1.61		918.40		901.93		0.11	0.00	902.04	
89120	M				46.04		2.0660		6.683				11482.47
		2.078	-0.10	-0.47		-5208.31		-5114.92		0.16	0.00	-5114.76	
KP525	M				46.10		2.0716		6.699				6367.71
		1.036	-0.13	0.12		-1637.15		-1607.80		0.10	0.00	-1607.70	
KP524	P				46.14		2.0725		6.708				4760.01
		1.212	0.20	0.46		1733.23		1702.16		0.09	0.00	1702.25	
5	S				46.18		2.0728		6.717				6462.26
		1.697	-0.01	0.05		6856.27		6733.35		0.15	0.00	6733.50	
89302	K				46.20		2.0718		6.732				13195.75
		0.013	0.00	0.04		207.02		203.30		0.00	0.00	203.30	
89301	K				46.20		2.0718		6.732				13399.05
		20.049	-1.49	1.78		-16536.33		-16239.77		1.99	0.00	-16237.78	

1	2	3	4	5	6	7	8	9	10	11	12	13	14
						32 A NÄRPIÖ-PIRTTIKYLÄ 1989.64							
89301	K				46.20		2.0718		6.732				13399.05
		2.230	0.56	3.05		5140.11		5047.97		0.16	0.00	5048.13	
73013	M				46.28		2.0724		6.747				18447.17
		1.366	0.12	0.75		-1687.35		-1657.10		0.09	0.00	-1657.01	
51209	K				46.32		2.0732		6.755				16790.17
		1.078	-0.14	1.72		-4185.40		-4110.38		0.06	0.00	-4110.32	
89320	K				46.36		2.0748		6.761				12679.84
		1.172	0.06	1.00		1547.93		1520.18		0.04	0.00	1520.22	
89319	M				46.40		2.0744		6.765				14200.07
		1.558	-0.48	2.40		-3848.45		-3779.47		0.07	0.00	-3779.40	
89318	S				46.45		2.0758		6.772				10420.66
		2.170	0.13	0.12		1419.21		1393.77		0.10	0.00	1393.87	
89317	S				46.52		2.0767		6.782				11814.52
		2.112	0.16	1.88		2599.08		2552.49		0.10	0.00	2552.59	
89316	S				46.59		2.0771		6.791				14367.11
		1.444	0.06	1.77		240.52		236.21		0.07	0.00	236.28	
89315	S				46.64		2.0768		6.797				14603.39
		1.284	-0.04	0.72		-3005.01		-2951.15		0.06	0.00	-2951.09	
89314	S				46.68		2.0780		6.803				11652.30
		1.510	-0.01	1.84		4514.21		4433.31		0.06	0.00	4433.37	
89313	S				46.73		2.0775		6.808				16085.66
		1.948	0.06	0.57		641.59		630.09		0.09	0.00	630.18	
KIRKKO	P				46.79		2.0771		6.817				16715.84
		0.998	0.02	0.46		-442.60		-434.67		0.01	0.00	-434.66	
MYRON	P				46.81		2.0777		6.818				16281.18
		2.550	0.13	1.50		3398.98		3338.06		0.07	0.00	3338.13	
89312	S				46.88		2.0783		6.825				19619.30
		2.102	0.14	1.06		5139.90		5047.78		0.12	0.00	5047.90	
1789	M				46.95		2.0771		6.836				24667.20
		0.016	0.00	-0.27		-370.59		-363.95		0.00	0.00	-363.95	
73010	M				46.95		2.0771		6.836				24303.25
		2.718	-0.08	2.96		369.61		362.99		0.09	-0.01	363.07	
645331	S				47.03		2.0774		6.845				24666.33
		1.870	-0.05	1.55		32.75		32.16		0.10	0.00	32.26	
1791	M				47.08		2.0778		6.855				24698.59
		0.120	0.00	-0.27		-443.74		-435.79		0.00	0.00	-435.79	
73011	M				47.09		2.0779		6.855				24262.79
		1.096	0.13	0.47		1134.92		1114.58		0.05	0.00	1114.63	
1792	M				47.12		2.0784		6.860				25377.43
		0.050	0.00	-0.05		113.10		111.08		0.00	0.00	111.08	
73009	M				47.12		2.0783		6.860				25488.51
		1.256	0.14	0.08		2783.27		2733.39		-0.01	0.00	2733.38	
1793	K				47.15		2.0783		6.859				28221.88
		30.648	0.91	23.31		15092.04		14821.56		1.33	-0.01	14822.88	
						32 B PIRTTIKYLÄ-SORVARI 1989.43							
1793	K				47.15		2.0783		6.859				28221.88
		0.026	0.00	-0.11		-78.19		-76.79		0.00	0.00	-76.79	
73008	K				47.15		2.0783		6.859				28145.09
		1.382	0.26	0.86		4419.52		4340.32		-0.02	0.00	4340.30	
1794	M				47.18		2.0778		6.857				32485.39
		0.120	0.00	0.21		-460.75		-452.49		0.00	0.00	-452.49	
73007	M				47.18		2.0779		6.857				32032.90
		0.928	-0.16	1.64		-405.87		-398.60		-0.02	0.00	-398.62	
89311	K				47.20		2.0783		6.855				31634.28
		1.876	0.54	2.11		3231.23		3173.32		0.11	0.00	3173.43	
1795	M				47.26		2.0779		6.865				34807.71
		0.070	0.01	-0.03		941.80		924.92		0.00	0.00	924.92	
60012	M				47.27		2.0777		6.865				35732.63
		0.850	0.77	-0.05		8657.93		8502.75		0.06	0.00	8502.81	
89310	K				47.29		2.0759		6.871				44235.43
		0.326	-0.21	0.94		-4440.25		-4360.67		0.02	0.00	-4360.65	
60011	M				47.30		2.0769		6.872				39874.78

1	2	3	4	5	6	7	8	9	10	11	12	13	14
60011	M				47.30		2.0769		6.872				39874.78
		0.922	0.20	0.02		2290.41		2249.36		0.06	0.00	2249.42	
89309	K				47.34		2.0758		6.878				42124.20
		1.434	-0.17	-0.36		-2949.04		-2896.19		0.10	0.00	-2896.09	
60010	M				47.39		2.0762		6.887				39228.11
		0.878	0.14	1.32		2670.64		2622.77		0.05	0.00	2622.82	
KP52	M				47.41		2.0761		6.892				41850.93
		0.956	0.21	2.58		1422.20		1396.71		0.07	0.00	1396.78	
1798	K				47.45		2.0753		6.898				43247.70
		1.226	0.02	0.73		-845.81		-830.65		0.09	0.00	-830.56	
89308	K				47.49		2.0744		6.907				42417.13
		0.928	-0.05	1.40		-36.37		-35.72		0.06	0.00	-35.66	
60009	K				47.52		2.0749		6.913				42381.47
		0.010	0.00	-0.02		-278.27		-273.28		0.00	0.00	-273.28	
1799	K				47.52		2.0750		6.913				42108.19
		11.932	1.56	11.24		14139.16		13885.75		0.58	0.00	13886.33	

32 C SORVARI-HÖSTVESI 1988.73

1799	K				47.52		2.0750		6.913				42108.19
		1.610	-0.05	1.67		-2026.26		-1989.94		0.13	0.00	-1989.81	
60008	K				47.58		2.0753		6.924				40118.38
		0.704	-0.22	0.26		-8599.58		-8445.45		0.05	0.00	-8445.40	
88216	K				47.61		2.0772		6.929				31672.98
		1.550	0.07	0.39		-96.70		-94.97		0.13	0.00	-94.84	
60007	K				47.66		2.0771		6.940				31578.13
		2.212	0.04	1.18		-1302.04		-1278.71		0.19	0.00	-1278.52	
1802	K				47.74		2.0777		6.957				30299.61
		2.142	0.02	0.84		-2414.82		-2371.53		0.17	0.00	-2371.36	
1803	K				47.82		2.0782		6.973				27928.25
		1.934	0.05	0.74		-1232.39		-1210.30		0.16	0.00	-1210.14	
60006	K				47.88		2.0773		6.987				26718.10
		1.384	-0.15	0.71		-8134.09		-7988.30		0.12	0.00	-7988.18	
60005	K				47.93		2.0780		6.998				18729.92
		1.924	-0.01	0.40		-448.76		-440.72		0.15	0.00	-440.57	
60004	M				48.00		2.0767		7.011				18289.35
		2.040	0.05	1.80		2371.16		2328.67		0.17	0.00	2328.84	
60003	K				48.07		2.0764		7.026				20618.18
		1.222	0.15	0.55		7651.00		7513.86		0.08	0.00	7513.94	
60002	K				48.11		2.0753		7.033				28132.12
		1.458	0.00	-1.50		-5422.00		-5324.82		0.11	0.00	-5324.71	
60001	K				48.16		2.0773		7.043				22807.41
		1.320	-0.10	-0.76		-2684.15		-2636.04		0.09	0.00	-2635.95	
51203	M				48.20		2.0783		7.051				20171.46
		1.914	0.00	0.62		-2535.73		-2490.28		0.15	0.00	-2490.13	
801404	K				48.27		2.0796		7.065				17681.32
		2.060	-0.06	0.51		-4323.85		-4246.36		0.19	0.00	-4246.17	
1813	K				48.34		2.0826		7.081				13435.15
		1.660	0.02	0.37		-1008.44		-990.37		0.16	0.00	-990.21	
88215	K				48.40		2.0839		7.095				12444.94
		1.082	0.05	0.14		2319.73		2278.17		0.10	0.00	2278.27	
51202	K				48.44		2.0843		7.104				14723.20
		1.564	-0.20	-0.10		-9894.44		-9717.20		0.13	0.00	-9717.07	
801401	S				48.50		2.0888		7.116				5006.13
		1.658	-0.05	0.64		870.42		854.83		0.06	0.00	854.89	
88214	M				48.53		2.0895		7.121				5861.02
		1.632	-0.16	-0.29		60.78		59.69		0.20	0.00	59.89	
6821	M				48.56		2.0895		7.139				5920.90
		1.608	0.04	2.09		1848.01		1814.91		0.13	0.00	1815.04	
88213	M				48.61		2.0902		7.151				7735.93
		1.782	0.14	0.00		2132.57		2094.38		0.21	0.00	2094.59	
88212	K				48.66		2.0912		7.170				9830.53
		1.038	0.02	0.93		-2619.82		-2572.90		0.04	0.00	-2572.86	
88312	K				48.69		2.0928		7.173				7257.67

1	2	3	4	5	6	7	8	9	10	11	12	13	14
88312	K				48.69		2.0928		7.173				7257.67
		0.020	0.00	-0.03		-270.67		-265.82		0.00	0.00	-265.82	
62036	K				48.69		2.0929		7.173				6991.85
		35.518	-0.35	11.16		-35760.06		-35119.20		2.92	0.00	-35116.28	

33 A SEINÄJOKI-YLISTARO 1988.63

76270	K				47.47		2.0799		6.422				63051.50
		0.658	-0.05	0.23		-4659.45		-4575.96		0.08	-0.04	-4575.92	
88201	K				47.48		2.0809		6.429				58475.59
		2.220	-1.52	1.87		-14607.77		-14346.04		0.30	1.73	-14344.01	
1094	P				47.54		2.0838		6.455				44131.57
		2.165	-0.30	1.70		-2589.27		-2542.88		0.30	0.00	-2542.58	
88206	S				47.59		2.0838		6.481				41589.01
		2.219	0.67	0.12		11456.40		11251.13		0.31	0.00	11251.44	
1097	M				47.65		2.0811		6.509				52840.45
		1.861	-0.95	0.38		-10801.43		-10607.90		0.26	0.00	-10607.64	
1098	M				47.70		2.0841		6.532				42232.81
		1.249	-0.14	0.29		-567.93		-557.76		0.17	0.00	-557.59	
1099	S				47.74		2.0850		6.547				41675.23
		2.030	-0.15	0.48		-1057.48		-1038.54		0.28	0.00	-1038.26	
1100	M				47.80		2.0854		6.571				40636.97
		2.782	0.07	0.07		2674.66		2626.75		0.37	0.01	2627.13	
1101	M				47.87		2.0840		6.604				43264.09
		1.348	-0.20	0.35		-1899.79		-1865.75		0.18	0.00	-1865.57	
1102	K				47.90		2.0851		6.620				41398.52
		2.188	-0.45	-0.17		-4993.32		-4903.87		0.29	0.00	-4903.58	
51317	R				47.95		2.0868		6.645				36494.94
		1.683	-0.12	-0.97		-3111.73		-3055.99		0.22	0.00	-3055.77	
1103	K				47.99		2.0865		6.664				33439.18
		1.815	-0.15	-0.43		-243.33		-238.97		0.23	0.00	-238.74	
85001	K				48.03		2.0867		6.684				33200.44
		22.218	-3.29	3.92		-30400.44		-29855.79		2.99	1.70	-29851.10	

33 B YLISTARO-HÖSTVESI 1988.68

85001	K				48.03		2.0867		6.684				33200.44
		0.861	-0.30	0.32		-2946.18		-2893.40		0.09	0.00	-2893.31	
59055	S				48.04		2.0873		6.693				30307.13
		1.727	0.01	1.60		-1593.34		-1564.80		0.19	0.00	-1564.61	
1106	P				48.06		2.0878		6.709				28742.52
		2.807	0.02	-1.45		-976.50		-959.01		0.28	0.01	-958.72	
88207	K				48.10		2.0901		6.734				27783.79
		0.269	-0.06	0.08		-831.88		-816.99		0.03	0.00	-816.96	
1107	P				48.11		2.0904		6.736				26966.84
		1.828	-0.04	-1.16		-1632.86		-1603.62		0.22	0.00	-1603.40	
1108	R				48.14		2.0918		6.756				25363.43
		3.074	0.06	-0.86		-1583.24		-1554.89		0.38	0.01	-1554.50	
59054	S				48.19		2.0936		6.790				23808.93
		1.316	0.39	-0.12		2640.36		2593.08		0.16	0.00	2593.24	
88208	K				48.21		2.0942		6.804				26402.17
		0.758	-0.03	0.10		-781.52		-767.53		0.09	0.00	-767.44	
1111	M				48.23		2.0948		6.812				25634.74
		1.342	-0.04	1.50		-1480.07		-1453.57		0.16	0.00	-1453.41	
1112	K				48.25		2.0956		6.826				24181.33
		2.645	-0.15	-1.39		-1655.41		-1625.77		0.33	0.01	-1625.43	
1113	M				48.29		2.0976		6.855				22555.89
		1.111	-0.05	-0.33		-480.73		-472.13		0.14	0.00	-471.99	
1114	M				48.31		2.0977		6.868				22083.90
		1.005	0.08	-0.40		5783.24		5679.70		0.10	0.00	5679.80	
88209	K				48.33		2.0968		6.877				27763.71
		1.092	-0.34	0.27		-7215.87		-7086.69		0.11	0.00	-7086.58	
1115	M				48.34		2.0985		6.886				20677.13
		1.935	-0.11	-2.84		-421.37		-413.82		0.25	0.00	-413.57	
1116	M				48.37		2.0980		6.908				20263.56

1	2	3	4	5	6	7	8	9	10	11	12	13	14
1116	M				48.37		2.0980		6.908				20263.56
		2.652	-0.37	0.93		-2869.60		-2818.22		0.32	0.01	-2817.89	
1117A	P				48.40		2.0974		6.936				17445.67
		1.350	-0.03	-0.84		-1643.42		-1613.99		0.11	0.00	-1613.88	
59053	M				48.40		2.0969		6.946				15831.79
		1.752	-0.04	0.64		1.53		1.50		0.10	0.00	1.60	
1119	M				48.38		2.0959		6.955				15833.39
		1.078	0.05	1.06		1137.84		1117.47		0.06	0.00	1117.53	
1120	M				48.37		2.0941		6.960				16950.92
		1.270	-0.13	-0.34		-1841.15		-1808.18		0.09	0.00	-1808.09	
59052	S				48.36		2.0929		6.968				15142.84
		1.406	-0.03	-0.60		259.78		255.13		0.06	0.00	255.19	
88210	K				48.35		2.0924		6.973				15398.03
		0.050	0.03	0.10		1008.07		990.02		0.00	0.00	990.02	
88211	K				48.34		2.0922		6.973				16388.05
		1.562	-0.07	0.97		-2225.83		-2185.97		0.13	0.00	-2185.84	
1122	M				48.35		2.0929		6.984				14202.21
		0.786	-0.01	-0.38		-586.75		-576.24		0.09	0.00	-576.15	
1123	M				48.36		2.0940		6.992				13626.06
		2.526	-0.14	0.65		-832.28		-817.38		0.32	0.00	-817.06	
1125	M				48.39		2.0944		7.021				12809.02
		1.418	-0.01	0.76		-272.79		-267.91		0.20	0.00	-267.71	
1126	M				48.43		2.0921		7.039				12541.31
		0.648	-0.04	0.29		3297.39		3238.34		0.07	0.00	3238.41	
88315	K				48.45		2.0917		7.045				15779.72
		2.638	-0.09	-1.90		-6212.47		-6101.22		0.21	0.01	-6101.00	
1127	M				48.49		2.0922		7.064				9678.72
		1.240	-0.15	-0.22		-3316.76		-3257.36		0.17	0.00	-3257.19	
62038	S				48.52		2.0934		7.079				6421.53
		2.070	-0.08	0.64		-581.33		-570.92		0.28	0.00	-570.64	
62037	S				48.57		2.0935		7.104				5850.89
		0.928	0.07	0.20		1552.15		1524.36		0.12	0.00	1524.48	
1130	M				48.59		2.0940		7.115				7375.38
		0.030	0.00	0.15		187.10		183.75		0.00	0.00	183.75	
1818	M				48.59		2.0940		7.115				7559.13
		2.036	0.23	-1.42		2675.20		2627.30		0.27	0.00	2627.57	
1131	M				48.64		2.0935		7.138				10186.71
		1.928	-0.07	-1.54		-2155.51		-2116.91		0.24	0.00	-2116.67	
88314	M				48.67		2.0930		7.159				8070.03
		1.294	0.02	-0.01		-1098.03		-1078.36		0.16	0.00	-1078.20	
62036	K				48.69		2.0929		7.173				6991.85
		50.432	-1.42	-5.54		-26692.23		-26214.22		5.53	0.05	-26208.64	

34 A HAAPAMÄKI-MYLLYMÄKI 1988.37

1027	K				45.29		2.0382		5.153				123137.13
		1.158	-0.24	-0.69		-943.20		-926.26		0.17	-0.01	-926.10	
68017	K				45.32		2.0387		5.168				122211.04
		2.294	0.16	0.58		17474.00		17160.12		0.34	-0.02	17160.44	
1029	K				45.39		2.0363		5.197				139371.48
		1.138	0.04	1.91		3097.01		3041.37		0.14	-0.01	3041.50	
88301	K				45.43		2.0362		5.209				142412.98
		2.326	0.82	-0.28		18497.50		18165.21		0.21	-0.02	18165.40	
1031	P				45.52		2.0345		5.227				160578.37
		0.920	-0.26	0.79		-1725.75		-1694.75		0.08	-0.01	-1694.68	
59062	K				45.55		2.0357		5.234				158883.70
		1.630	-0.27	3.84		-10566.84		-10377.03		0.20	-0.01	-10376.84	
1033	K				45.61		2.0400		5.251				148506.85
		1.462	0.00	1.63		-1854.65		-1821.34		0.16	-0.01	-1821.19	
1034	M				45.66		2.0426		5.265				146685.66
		0.922	0.06	0.31		2145.40		2106.88		0.09	-0.01	2106.96	
61005	P				45.69		2.0430		5.273				148792.63
		1.016	-0.20	1.56		-5220.67		-5126.92		0.09	-0.01	-5126.84	
88302	R				45.73		2.0442		5.280				143665.79
		0.694	-0.25	0.66		2963.33		2910.12		0.05	-0.01	2910.16	
1036A	M				45.75		2.0438		5.285				146575.95

1	2	3	4	5	6	7	8	9	10	11	12	13	14
1036A	M				45.75		2.0438		5.285				146575.95
		2.128	0.38	5.50		8025.57		7881.46		0.27	-0.02	7881.71	
88303	M				45.83		2.0418		5.308				154457.66
		1.192	-0.32	1.71		-7749.10		-7609.95		0.14	-0.01	-7609.82	
88304	K				45.87		2.0444		5.320				146847.84
		0.376	0.04	1.16		1074.52		1055.23		0.04	0.00	1055.27	
1038	M				45.89		2.0442		5.323				147903.10
		1.264	0.11	1.32		1466.07		1439.75		0.14	-0.01	1439.88	
563666	M				45.93		2.0438		5.335				149342.98
		0.480	-0.19	0.96		-4156.16		-4081.54		0.05	0.00	-4081.49	
1039	R				45.94		2.0450		5.340				145261.49
		1.700	0.07	1.65		3027.50		2973.15		0.21	-0.01	2973.35	
1040	M				46.00		2.0470		5.358				148234.84
		1.854	-0.34	1.21		7673.11		7535.37		0.22	-0.01	7535.58	
68015	M				46.07		2.0505		5.376				155770.41
		1.158	0.13	1.84		4384.74		4306.04		0.13	-0.01	4306.16	
88305	K				46.11		2.0521		5.387				160076.57
		0.556	0.06	0.87		1722.32		1691.40		0.06	0.00	1691.46	
68014	M				46.13		2.0525		5.393				161768.02
		1.816	-0.02	2.03		1316.76		1293.13		0.20	-0.01	1293.32	
1043	K				46.19		2.0533		5.410				163061.34
		1.708	0.01	2.54		-1164.45		-1143.56		0.17	-0.01	-1143.40	
66006	K				46.26		2.0534		5.424				161917.93
		1.436	-0.10	2.31		4472.16		4391.90		0.15	-0.01	4392.04	
88306	K				46.31		2.0528		5.438				166309.97
		1.164	-0.09	1.29		6320.13		6206.69		0.13	-0.01	6206.81	
66003	K				46.35		2.0499		5.448				172516.78
		1.350	-0.01	1.64		2660.31		2612.56		0.16	-0.01	2612.71	
59015	K				46.39		2.0484		5.462				175129.50
		31.742	-0.41	36.34		52939.60		51989.00		3.60	-0.24	51992.36	

34 B MYLLYMÄKI-SYDÄNMAA 1988.43

59015	K				46.39		2.0484		5.462				175129.50
		1.354	0.06	1.32		875.37		859.65		0.17	-0.01	859.81	
1047	P				46.43		2.0483		5.477				175989.31
		0.190	-0.01	0.70		437.06		429.22		0.02	0.00	429.24	
1048	P				46.44		2.0483		5.479				176418.54
		0.916	0.42	0.03		-4674.83		-4590.91		0.12	-0.01	-4590.80	
66004	K				46.45		2.0495		5.489				171827.74
		1.830	-0.09	1.95		-12471.65		-12247.80		0.22	-0.01	-12247.59	
66005	K				46.47		2.0532		5.508				159580.16
		1.736	-0.10	2.40		572.49		562.22		0.23	-0.01	562.44	
68016	K				46.49		2.0543		5.529				160142.59
		1.802	-0.11	1.37		-4193.91		-4118.65		0.24	-0.01	-4118.42	
41004	M				46.53		2.0556		5.550				156024.16
		0.034	0.00	0.05		306.42		300.92		0.00	0.00	300.92	
552915	K				46.53		2.0556		5.550				156325.08
		0.066	0.00	0.06		537.45		527.80		0.00	0.00	527.80	
66007	K				46.53		2.0555		5.550				156852.88
		1.394	0.02	1.82		-390.43		-383.42		0.18	-0.01	-383.25	
1053	M				46.55		2.0547		5.566				156469.64
		1.342	0.05	1.91		1150.12		1129.48		0.12	-0.01	1129.59	
1054	M				46.54		2.0541		5.576				157599.22
		1.884	-0.13	1.53		-468.12		-459.72		0.16	-0.01	-459.57	
63053	M				46.53		2.0528		5.590				157139.64
		0.922	-0.29	0.72		-8970.93		-8809.93		0.13	-0.01	-8809.81	
88307	K				46.54		2.0540		5.601				148329.85
		1.104	0.17	-0.18		-4128.78		-4054.69		0.14	-0.01	-4054.56	
1056A	M				46.57		2.0553		5.614				144275.29
		1.387	-0.23	1.49		1756.36		1724.84		0.17	-0.01	1725.00	
1057	M				46.62		2.0562		5.629				146000.29
		0.094	0.45	0.51		-2534.03		-2488.56		0.01	0.00	-2488.55	
66025	K				46.62		2.0568		5.630				143511.74
		1.120	-0.21	0.99		5478.56		5380.25		0.15	-0.01	5380.39	
88308	K				46.64		2.0564		5.643				148892.13

1	2	3	4	5	6	7	8	9	10	11	12	13	14
88308	K				46.64		2.0564		5.643				148892.13
		0.724	-0.30	1.06		8471.66		8319.65		0.09	-0.01	8319.73	
66024	K				46.64		2.0550		5.650				157211.86
		1.764	-0.19	2.17		3488.19		3425.60		0.21	-0.01	3425.80	
1059	M				46.65		2.0545		5.669				160637.66
		0.016	-0.01	-0.03		-655.20		-643.44		0.00	0.00	-643.44	
66023	M				46.65		2.0547		5.669				159994.22
		1.052	-0.06	1.45		-6027.80		-5919.63		0.15	-0.01	-5919.49	
88309	K				46.67		2.0563		5.682				154074.73
		1.398	-0.68	1.08		2536.93		2491.40		0.20	-0.01	2491.59	
1060	K				46.70		2.0567		5.699				156566.32
		1.646	-0.02	3.34		-11459.62		-11254.02		0.23	-0.01	-11253.80	
1061	M				46.75		2.0604		5.719				145312.52
		1.180	-0.38	0.93		-7632.08		-7495.18		0.18	-0.01	-7495.01	
1062	K				46.77		2.0623		5.735				137817.51
		0.060	-0.01	-0.13		-569.05		-558.84		0.01	0.00	-558.83	
66022	K				46.77		2.0624		5.735				137258.68
		1.464	-0.26	1.37		-4202.14		-4126.77		0.17	-0.01	-4126.61	
1063A	K				46.77		2.0626		5.750				133132.07
		0.830	0.16	0.55		1336.87		1312.89		0.06	-0.01	1312.94	
88310	K				46.76		2.0616		5.756				134445.01
		1.326	-0.13	1.10		-1265.47		-1242.77		0.10	-0.01	-1242.68	
66021	K				46.74		2.0605		5.764				133202.33
		0.980	0.25	0.84		-2921.73		-2869.31		0.05	-0.01	-2869.27	
88311	K				46.72		2.0600		5.769				130333.07
		1.523	0.29	-0.17		-9665.91		-9492.50		0.14	-0.01	-9492.37	
66020	M				46.71		2.0601		5.782				120840.70
		1.552	-0.61	0.72		-5954.63		-5847.81		0.22	-0.01	-5847.60	
1066	K				46.73		2.0618		5.801				114993.09
		2.252	-0.58	-0.51		-6515.39		-6398.52		0.34	-0.02	-6398.20	
60020	S				46.77		2.0641		5.830				108594.90
		1.530	0.50	0.80		4840.45		4753.63		0.21	-0.01	4753.83	
1068	M				46.78		2.0642		5.849				113348.73
		1.288	-0.11	-0.05		-2645.40		-2597.95		0.15	-0.01	-2597.81	
1069	K				46.78		2.0644		5.861				110750.92
		2.278	-1.49	-0.94		-13586.94		-13343.26		0.36	-0.02	-13342.92	
1070A	S				46.82		2.0653		5.893				97408.00
		1.464	0.82	0.29		8334.76		8185.27		0.18	-0.01	8185.44	
1071	P				46.82		2.0630		5.908				105593.44
		2.508	1.37	-1.07		15146.58		14874.88		0.34	-0.02	14875.20	
1072	K				46.84		2.0604		5.937				120468.64
		2.144	-0.20	-2.25		-2955.99		-2902.96		0.32	-0.02	-2902.66	
1073	K				46.87		2.0620		5.965				117565.98
		1.425	-0.07	-1.00		-1170.65		-1149.65		0.18	-0.01	-1149.48	
1074	K				46.87		2.0624		5.980				116416.51
		1.910	0.11	-0.34		4007.62		3935.74		0.29	-0.01	3936.02	
1075	K				46.90		2.0618		6.005				120352.52
		2.525	0.41	0.78		-4096.29		-4022.81		0.39	-0.02	-4022.44	
1076	K				46.94		2.0628		6.039				116330.09
		2.413	-0.68	2.89		-5744.79		-5641.74		0.29	-0.02	-5641.47	
1077	K				46.94		2.0639		6.064				110688.62
		1.272	0.10	0.46		433.97		426.18		0.15	-0.01	426.32	
88205.1	M				46.94		2.0637		6.077				111114.94
		2.317	-0.25	1.39		-2728.46		-2679.52		0.28	-0.02	-2679.26	
59007	K				46.95		2.0639		6.101				108435.69
		1.970	0.07	0.32		768.84		755.05		0.29	-0.01	755.33	
1080	M				46.98		2.0646		6.127				109191.01
		1.606	0.21	0.44		1984.81		1949.21		0.25	-0.01	1949.45	
1081	K				47.01		2.0652		6.149				111140.46
		1.183	-0.16	1.51		-1468.37		-1442.04		0.19	-0.01	-1441.86	
1082	M				47.04		2.0661		6.165				109698.60
		1.492	-0.18	-0.30		-3057.17		-3002.35		0.24	-0.01	-3002.12	
1083	K				47.08		2.0675		6.185				106696.48
		64.267	-2.08	33.37		-69691.24		-68440.86		8.32	-0.48	-68433.02	

1	2	3	4	5	6	7	8	9	10	11	12	13	14
						34 C SYDÄNMAA-SEINÄJOKI 1988.39							
1083	K				47.08		2.0675		6.185				106696.48
		1.777	-0.04	-1.45		-1546.91		-1519.17		0.28	-0.01	-1518.90	
1084	M				47.13		2.0689		6.209				105177.58
		2.120	-0.04	0.90		-1888.11		-1854.26		0.33	-0.02	-1853.95	
1085	M				47.18		2.0702		6.238				103323.63
		1.573	0.06	0.93		-4704.66		-4620.32		0.24	-0.01	-4620.09	
63031	M				47.22		2.0721		6.259				98703.54
		1.470	-0.24	-0.85		-5805.06		-5700.99		0.21	-0.01	-5700.79	
63032	M				47.24		2.0733		6.276				93002.75
		1.318	0.15	0.80		5156.24		5063.80		0.18	-0.01	5063.97	
1087	M				47.25		2.0724		6.292				98066.73
		1.604	0.11	0.76		1486.68		1460.02		0.24	-0.01	1460.25	
1088	K				47.29		2.0726		6.312				99526.96
		1.881	-0.03	0.46		-11280.06		-11077.85		0.27	-0.01	-11077.59	
1089	K				47.32		2.0753		6.336				88449.38
		1.846	-0.25	-2.42		-15157.99		-14886.32		0.27	-0.01	-14886.06	
1090	K				47.36		2.0783		6.359				73563.32
		1.679	-0.06	-0.78		-6939.51		-6815.15		0.23	-0.01	-6814.93	
1091	K				47.40		2.0803		6.379				66748.37
		2.241	0.03	-1.06		-3901.63		-3831.72		0.31	-0.02	-3831.43	
1092	K				47.44		2.0800		6.406				62916.95
		1.272	0.07	-1.61		136.83		134.38		0.18	-0.01	134.55	
76270	K				47.47		2.0799		6.422				63051.50
		18.781	-0.24	-4.32		-44444.18		-43647.57		2.74	-0.13	-43644.96	
						35.1 SEINÄJOKI-LAPUA 1990.28							
76270	K				47.47		2.0799		6.422				63051.50
		0.658	-0.06	0.23		-4659.45		-4575.96		0.07	-0.03	-4575.92	
88201	K				47.48		2.0809		6.429				58475.59
		2.216	-0.66	-1.49		-14604.01		-14342.34		0.26	-1.93	-14344.01	
1094	P				47.54		2.0838		6.455				44131.57
		1.764	-0.32	0.89		-3145.79		-3089.43		0.13	-0.17	-3089.47	
90201	M				47.59		2.0847		6.469				41042.11
		1.992	0.09	1.31		1541.19		1513.58		0.02	-0.19	1513.41	
1141	M				47.64		2.0846		6.470				42555.52
		1.832	0.16	0.04		1092.80		1073.23		0.01	-0.17	1073.07	
1142	K				47.69		2.0849		6.472				43628.59
		0.982	-0.14	-0.11		-2024.11		-1987.85		0.00	-0.09	-1987.94	
1143	S				47.71		2.0857		6.472				41640.66
		2.536	0.32	-0.29		4698.02		4613.86		0.08	-0.24	4613.70	
1144	M				47.79		2.0847		6.480				46254.36
		1.017	0.32	-0.42		3809.32		3741.08		0.04	-0.10	3741.02	
1145	M				47.83		2.0840		6.485				49995.37
		1.424	0.18	-0.93		1468.49		1442.18		0.02	-0.13	1442.07	
90204	K				47.86		2.0839		6.487				51437.45
		0.756	-0.28	-0.17		-5905.74		-5799.94		0.05	-0.07	-5799.96	
1146	M				47.88		2.0852		6.492				45637.49
		3.445	-0.27	1.33		-7079.07		-6952.28		0.11	-0.32	-6952.49	
90202	R				48.00		2.0923		6.503				38684.99
		3.401	0.16	0.70		712.53		699.78		0.13	-0.32	699.59	
AP0106	P				48.11		2.0974		6.516				39384.58
		0.896	0.31	-0.42		7248.31		7118.54		-0.10	-0.08	7118.36	
90203	K				48.10		2.0957		6.506				46502.93
		2.666	-0.41	-1.54		-8729.52		-8573.25		0.25	-0.25	-8573.25	
AP0602	P				48.17		2.1017		6.532				37929.69
		2.556	-0.45	-0.86		-6258.37		-6146.38		0.25	-0.24	-6146.37	
1152	S				48.27		2.1077		6.557				31783.31
		2.385	0.07	-1.10		1929.72		1895.20		0.23	-0.22	1895.21	
1153	M				48.35		2.1096		6.581				33678.52
		1.863	0.77	0.24		16259.42		15968.53		0.14	0.55	15969.22	
1154	K				48.42		2.1090		6.595				49647.74
		32.389	-0.21	-2.59		-13646.26		-13401.46		1.69	-4.00	-13403.77	

1	2	3	4	5	6	7	8	9	10	11	12	13	14
						35.2 A LAPUA-KOVJOKI 1990.43							
1154	K				48.42		2.1090		6.595				49647.74
		1.550	0.20	-0.19		1532.53		1505.11		0.13	-0.09	1505.15	
1155	K				48.48		2.1104		6.610				51152.89
		1.858	-0.03	-2.55		-7455.46		-7322.09		0.13	-0.11	-7322.07	
1156	K				48.55		2.1136		6.623				43830.83
		1.174	-0.06	-0.31		-3240.07		-3182.12		0.08	-0.07	-3182.11	
90205	K				48.59		2.1151		6.631				40648.71
		2.730	0.04	2.09		2646.27		2598.94		0.10	-0.16	2598.88	
1158	K				48.68		2.1159		6.641				43247.59
		1.462	-0.47	-1.23		-5545.27		-5446.11		0.10	-0.09	-5446.10	
1159	K				48.73		2.1180		6.652				37801.49
		1.676	-0.21	-0.40		-2568.37		-2522.44		0.12	-0.10	-2522.42	
1160	S				48.79		2.1197		6.665				35279.08
		2.038	0.08	-2.25		7090.52		6963.74		0.22	-0.12	6963.84	
90206	K				48.86		2.1190		6.687				42242.92
		1.474	0.54	-2.18		4642.09		4559.08		0.17	-0.09	4559.16	
1162	K				48.91		2.1185		6.705				46802.08
		2.540	0.69	-1.58		15000.78		14732.53		0.25	-0.15	14732.63	
1163	K				49.00		2.1167		6.731				61534.71
		1.902	-0.03	-0.10		-404.61		-397.38		0.22	-0.11	-397.27	
90207	K				49.05		2.1159		6.754				61137.45
		1.530	-0.03	0.27		2187.66		2148.53		0.18	-0.09	2148.62	
90208	K				49.10		2.1140		6.772				63286.07
		2.066	-0.29	0.15		-7442.38		-7309.26		0.23	-0.12	-7309.15	
1166	K				49.16		2.1156		6.797				55976.92
		1.294	-0.32	0.92		-3464.90		-3402.93		0.15	-0.08	-3402.86	
1167	K				49.21		2.1163		6.813				52574.05
		2.722	-0.94	-0.25		-17097.71		-16791.96		0.31	-0.16	-16791.81	
1168	S				49.29		2.1187		6.845				35782.25
		1.878	0.02	-1.76		2312.22		2270.87		0.21	-0.11	2270.97	
46103	M				49.35		2.1184		6.867				38053.22
		0.910	0.02	-0.29		1206.04		1184.48		0.07	-0.05	1184.50	
90315	K				49.38		2.1186		6.875				39237.72
		1.164	-0.31	-0.37		-10766.37		-10573.87		0.11	-0.07	-10573.83	
90314	R				49.42		2.1212		6.886				28663.89
		1.852	0.12	0.37		1787.29		1755.34		0.20	-0.11	1755.43	
90313	M				49.48		2.1207		6.908				30419.32
		1.842	0.27	-1.40		3438.61		3377.14		0.22	-0.11	3377.25	
90312	M				49.53		2.1192		6.930				33796.57
		1.462	-0.04	1.01		-1782.91		-1751.03		0.17	-0.09	-1750.95	
47010	M				49.58		2.1191		6.948				32045.63
		0.430	-0.09	0.43		-2955.29		-2902.45		0.03	-0.03	-2902.45	
90311	K				49.59		2.1197		6.951				29143.18
		1.278	0.21	0.62		125.84		123.59		0.06	-0.08	123.57	
90310	M				49.61		2.1197		6.957				29266.76
		1.012	0.02	-0.10		1997.34		1961.63		0.08	-0.06	1961.65	
1174	M				49.65		2.1192		6.966				31228.41
		0.632	0.01	-0.16		-3132.91		-3076.89		0.06	-0.04	-3076.87	
75008	R				49.67		2.1198		6.972				28151.54
		0.032	0.05	-0.05		1516.07		1488.96		0.00	0.00	1488.96	
1175	S				49.67		2.1195		6.972				29640.50
		1.030	0.15	1.44		1039.87		1021.28		0.12	-0.06	1021.34	
831408	R				49.70		2.1189		6.984				30661.84
		0.260	-0.01	-0.13		1228.91		1206.94		0.03	-0.02	1206.95	
90309	M				49.71		2.1186		6.987				31868.79
		1.730	0.06	-1.19		-5217.55		-5124.25		0.20	-0.10	-5124.15	
46104	R				49.77		2.1191		7.008				26744.64
		1.292	0.00	-1.24		846.67		831.53		0.15	-0.08	831.60	
90308	S				49.81		2.1188		7.024				27576.24
		1.172	-0.05	0.71		-515.68		-506.46		0.14	-0.07	-506.39	
90319	R				49.84		2.1198		7.039				27069.86
		0.990	0.07	1.40		411.67		404.31		0.12	-0.06	404.37	
90307	S				49.87		2.1201		7.051				27474.24
		1.506	-0.05	0.40		4412.45		4333.56		0.18	-0.09	4333.65	
1179	M				49.91		2.1197		7.070				31807.89

1	2	3	4	5	6	7	8	9	10	11	12	13	14
1179	M				49.91		2.1197		7.070				31807.89
		1.966	-0.17	0.88		-6146.90		-6037.00		0.24	-0.12	-6036.88	
90306	R				49.97		2.1223		7.095				25771.02
		1.288	-0.03	1.33		-1267.74		-1245.07		0.16	-0.08	-1244.99	
90305	R				50.00		2.1234		7.111				24526.04
		1.148	-0.12	-0.01		-1361.98		-1337.63		0.14	-0.07	-1337.56	
90318	R				50.03		2.1243		7.126				23188.48
		1.932	0.01	-1.43		-1001.04		-983.15		0.22	-0.11	-983.04	
90304	K				50.09		2.1253		7.149				22205.43
		1.014	-0.01	-0.75		-963.24		-946.02		0.08	-0.06	-946.00	
1183	M				50.12		2.1260		7.157				21259.43
		0.918	0.17	-0.15		3058.29		3003.62		0.06	-0.05	3003.63	
1184	K				50.15		2.1262		7.163				24263.05
		0.960	0.06	1.04		738.44		725.24		0.02	-0.06	725.20	
90302	K				50.15		2.1257		7.165				24988.26
		1.460	0.02	1.26		-175.16		-172.03		0.10	-0.09	-172.02	
1185	M				50.21		2.1271		7.175				24816.23
		1.062	-0.04	1.55		254.29		249.74		0.07	-0.06	249.75	
90317	R				50.25		2.1277		7.183				25065.98
		0.826	-0.06	0.11		-1355.12		-1330.90		0.05	-0.05	-1330.90	
1186	K				50.28		2.1285		7.188				23735.08
		2.298	0.11	-0.75		686.09		673.83		0.14	-0.14	673.83	
1187	K				50.36		2.1297		7.203				24408.91
		2.032	-0.07	0.70		-1519.33		-1492.18		0.13	-0.12	-1492.17	
90303	R				50.43		2.1312		7.217				22916.75
		1.480	0.05	-0.07		-1793.63		-1761.58		0.09	-0.09	-1761.58	
90316	M				50.49		2.1329		7.226				21155.17
		1.280	-0.09	-0.03		-2348.92		-2306.95		0.04	-0.08	-2306.99	
1190	P				50.53		2.1343		7.231				18848.18
		1.234	0.03	0.12		-1000.22		-982.35		0.01	-0.07	-982.41	
75009	K				50.57		2.1354		7.232				17865.77
		1.390	-0.29	-0.74		-3551.52		-3488.08		0.04	-0.08	-3488.12	
75010	K				50.61		2.1381		7.236				14377.66
		68.776	-0.81	-4.86		-35914.34		-35272.17		6.13	-4.10	-35270.14	

35.2 B KOVJOKI-PÄNNÄINEN 1990.40

75010	K				50.61		2.1381		7.236				14377.66
		2.358	0.03	1.63		332.24		326.31		0.03	-0.14	326.20	
1194	M				50.69		2.1409		7.239				14703.86
		0.512	-0.04	1.45		-1673.42		-1643.53		0.01	-0.03	-1643.55	
T1	P				50.70		2.1416		7.241				13060.31
		1.926	-0.36	-0.04		-4241.12		-4165.38		0.05	-0.11	-4165.44	
1195	K				50.77		2.1443		7.246				8894.86
		0.866	0.02	0.19		65.27		64.10		0.02	-0.05	64.07	
90301	K				50.80		2.1451		7.248				8958.93
		0.019	-0.01	-0.07		-426.34		-418.72		0.00	0.00	-418.72	
1196	K				50.80		2.1452		7.249				8540.20
		5.681	-0.36	3.16		-5943.36		-5837.22		0.11	-0.33	-5837.44	

36 A PÄNNÄINEN-KANNUS 1990.72

1196	K				50.80		2.1452		7.249				8540.20
		1.793	-0.39	-2.18		-2517.17		-2472.23		-0.02	-0.11	-2472.36	
61054	S				50.84		2.1469		7.247				6067.86
		2.443	-0.05	1.17		-1338.80		-1314.90		-0.10	-0.14	-1315.14	
47001	K				50.89		2.1492		7.236				4752.71
		1.449	0.22	-1.55		1703.50		1673.09		-0.09	-0.09	1672.91	
AP2100	P				50.91		2.1497		7.227				6425.63
		0.220	-0.06	-0.36		-508.01		-498.94		0.01	-0.01	-498.94	
63033	S				50.92		2.1500		7.228				5926.69
		1.878	0.22	-0.79		1937.21		1902.63		-0.07	-0.11	1902.45	
47003	S				50.95		2.1503		7.221				7829.14
		1.936	0.32	-1.37		4302.19		4225.40		-0.01	-0.11	4225.28	
1202	M				51.00		2.1509		7.219				12054.42

1	2	3	4	5	6	7	8	9	10	11	12	13	14
1202	M				51.00		2.1509		7.219				12054.42
		1.535	0.33	1.30		4619.99		4537.54		-0.01	-0.09	4537.44	
1203	M				51.05		2.1510		7.218				16591.85
		1.232	-0.53	-0.37		-5113.79		-5022.52		0.00	-0.07	-5022.59	
1204	K				51.09		2.1530		7.218				11569.27
		1.634	0.25	-1.08		3826.25		3757.97		0.00	-0.10	3757.87	
1205	K				51.14		2.1532		7.218				15327.14
		1.456	-0.32	-0.17		-2550.71		-2505.19		-0.01	-0.09	-2505.29	
1206	K				51.18		2.1544		7.216				12821.85
		1.630	0.02	0.85		602.00		591.26		-0.01	-0.10	591.15	
1207	M				51.23		2.1548		7.216				13413.00
		1.762	-0.29	1.12		-6213.61		-6102.74		-0.02	-0.10	-6102.86	
1208	M				51.28		2.1567		7.214				7310.14
		2.430	-0.01	1.46		1034.76		1016.29		0.00	-0.14	1016.15	
1210	S				51.36		2.1573		7.214				8326.29
		1.981	0.13	0.80		4268.96		4192.80		0.02	-0.12	4192.70	
1211	M				51.42		2.1575		7.216				12518.99
		2.512	0.19	-2.32		5168.82		5076.60		0.05	-0.15	5076.50	
90219	S				51.51		2.1579		7.221				17595.49
		1.790	-0.13	1.06		-1187.27		-1166.08		0.05	-0.11	-1166.14	
47006	R				51.58		2.1601		7.226				16429.35
		1.411	-0.10	-0.18		-1770.96		-1739.37		0.01	-0.08	-1739.44	
63034	M				51.62		2.1620		7.227				14689.91
		1.549	-0.11	-0.23		-3593.23		-3529.14		0.01	-0.09	-3529.22	
60021	M				51.68		2.1639		7.228				11160.69
		2.129	-0.02	0.87		-1806.96		-1774.72		0.04	-0.13	-1774.81	
1216	M				51.75		2.1675		7.232				9385.88
		2.099	-0.30	0.88		-4507.12		-4426.76		-0.08	-0.12	-4426.96	
90218	S				51.79		2.1705		7.223				4958.92
		1.147	0.66	0.57		5407.51		5311.09		-0.11	-0.07	5310.91	
79001	M				51.78		2.1665		7.211				10269.84
		1.615	-0.16	1.11		-2206.20		-2166.86		-0.15	-0.09	-2167.10	
1220	K				51.78		2.1661		7.195				8102.73
		1.434	-0.26	1.48		-2916.09		-2864.09		-0.11	-0.08	-2864.28	
63035	S				51.80		2.1690		7.183				5238.45
		1.412	-0.01	-1.27		1738.85		1707.85		-0.10	-0.08	1707.67	
47008	S				51.82		2.1692		7.172				6946.11
		1.650	-0.03	-1.23		-1029.82		-1011.46		-0.12	-0.10	-1011.68	
1223	S				51.83		2.1697		7.159				5934.45
		2.309	0.38	0.89		10813.09		10620.27		-0.23	-0.14	10619.90	
1224	M				51.83		2.1661		7.134				16554.34
		0.617	-0.05	0.81		-481.83		-473.24		-0.07	-0.04	-473.35	
1225	K				51.82		2.1657		7.127				16080.99
		2.540	-0.20	-2.36		-4326.42		-4249.27		-0.23	-0.15	-4249.65	
1226	M				51.83		2.1662		7.102				11831.35
		1.612	0.40	-0.96		6924.87		6801.37		-0.10	-0.09	6801.18	
1227	K				51.85		2.1643		7.091				18632.52
		1.280	0.01	1.48		-5801.53		-5698.05		-0.06	-0.08	-5698.19	
47009	M				51.88		2.1652		7.084				12934.34
		1.234	0.05	0.32		26.33		25.86		-0.07	-0.07	25.72	
1229	S				51.90		2.1655		7.076				12960.05
		1.310	0.03	0.04		849.74		834.59		-0.10	-0.08	834.41	
1230	S				51.91		2.1650		7.065				13794.48
		0.924	-0.09	0.56		3155.90		3099.61		-0.05	-0.05	3099.51	
90338	M				51.92		2.1643		7.060				16893.97
		1.316	-0.02	0.38		3376.70		3316.47		-0.11	-0.08	3316.28	
90337	K				51.93		2.1639		7.048				20210.25
		0.036	-0.01	0.05		-2357.52		-2315.47		0.00	0.00	-2315.47	
1231	K				51.93		2.1644		7.048				17894.78
		1.680	-0.20	0.07		5972.37		5865.85		-0.15	-0.10	5865.60	
1232	M				51.93		2.1633		7.032				23760.38
		2.288	0.03	2.87		11316.70		11114.83		-0.20	-0.13	11114.50	
1233	K				51.93		2.1603		7.010				34874.88
		1.664	0.09	1.06		5069.05		4978.61		-0.14	-0.10	4978.37	
64001	M				51.93		2.1581		6.995				39853.25
		1.448	-0.05	1.45		84.26		82.76		-0.11	-0.09	82.56	
1235	M				51.94		2.1585		6.983				39935.82

1	2	3	4	5	6	7	8	9	10	11	12	13	14
1235	M				51.94		2.1585		6.983				39935.82
		2.356	0.24	1.69		11666.23		11458.07		-0.16	-0.14	11457.77	
1236	M				51.96		2.1556		6.966				51393.59
		2.000	0.04	2.19		2008.46		1972.62		-0.13	-0.12	1972.37	
1237	M				51.98		2.1546		6.953				53365.96
		1.764	0.11	1.29		-3634.19		-3569.34		-0.10	-0.10	-3569.54	
90336	K				51.99		2.1558		6.942				49796.43
		0.016	-0.01	0.25		-533.58		-524.06		0.00	0.00	-524.06	
1238	K				51.99		2.1559		6.942				49272.36
		68.521	0.32	11.65		41478.96		40739.01		-2.83	-4.04	40732.14	

36 B KANNUS-YLIVIESKA 1990.69

1238	K				51.99		2.1559		6.942				49272.36
		1.532	-0.03	0.20		-898.04		-882.02		-0.09	-0.09	-882.20	
1239	M				52.01		2.1560		6.932				48390.16
		1.010	-0.04	0.92		-1501.42		-1474.63		-0.07	-0.06	-1474.76	
1240	S				52.02		2.1562		6.925				46915.41
		1.800	0.07	-0.11		774.61		760.80		-0.11	-0.11	760.58	
1241	M				52.03		2.1562		6.913				47675.99
		1.490	0.05	-0.57		-2143.88		-2105.63		-0.09	-0.09	-2105.81	
90335	R				52.04		2.1567		6.903				45570.18
		0.770	0.02	-0.49		224.37		220.36		-0.02	-0.05	220.29	
47025	S				52.06		2.1568		6.900				45790.47
		1.832	0.30	1.76		5570.25		5470.86		-0.08	-0.11	5470.67	
90334	M				52.06		2.1555		6.891				51261.15
		0.316	0.01	-0.05		-306.17		-300.70		-0.02	-0.02	-300.74	
47011	R				52.06		2.1552		6.889				50960.41
		2.532	0.22	2.36		10195.23		10013.28		-0.21	-0.15	10012.92	
1244	M				52.06		2.1513		6.866				60973.33
		3.020	0.17	1.03		13317.35		13079.64		-0.23	-0.18	13079.23	
1245	M				52.06		2.1472		6.841				74052.56
		1.456	0.44	0.83		12583.52		12358.85		-0.08	-0.09	12358.68	
63036	M				52.08		2.1435		6.832				86411.24
		1.490	-0.02	-0.17		1274.15		1251.40		-0.12	-0.09	1251.19	
1247	M				52.08		2.1418		6.819				87662.43
		1.632	0.58	0.57		7824.02		7684.31		-0.03	-0.10	7684.18	
1248	M				52.11		2.1411		6.816				95346.62
		1.056	0.03	-0.80		-6385.99		-6271.95		-0.01	-0.06	-6272.02	
90333	M				52.14		2.1432		6.815				89074.59
		1.022	0.02	-0.14		-180.29		-177.07		0.01	-0.06	-177.12	
1249	M				52.17		2.1443		6.816				88897.47
		2.128	-0.04	0.55		-1292.26		-1269.19		0.04	-0.13	-1269.28	
1250	K				52.23		2.1455		6.821				87628.20
		1.610	-0.94	1.10		-14395.59		-14138.59		0.00	-0.09	-14138.68	
1251	M				52.28		2.1486		6.821				73489.51
		1.708	0.01	1.75		-2737.68		-2688.82		0.00	-0.10	-2688.92	
1252	S				52.32		2.1519		6.821				70800.60
		1.888	0.10	-0.87		6530.01		6413.47		-0.06	-0.11	6413.30	
1253	K				52.36		2.1541		6.815				77213.90
		1.610	-0.10	1.21		-1877.59		-1844.09		-0.02	-0.09	-1844.20	
90332	R				52.40		2.1551		6.813				75369.70
		1.500	0.45	-0.30		11250.18		11049.41		-0.05	-0.09	11049.27	
1254	K				52.43		2.1531		6.807				86418.97
		1.928	0.01	-1.24		2365.72		2323.50		-0.11	-0.11	2323.28	
1255	M				52.46		2.1537		6.796				88742.25
		1.534	0.00	0.87		-2982.83		-2929.60		-0.08	-0.09	-2929.77	
1256	K				52.48		2.1580		6.787				85812.48
		1.808	-0.10	0.64		-5116.21		-5024.94		-0.07	-0.11	-5025.12	
1257	K				52.52		2.1622		6.779				80787.36
		0.998	-0.08	-0.04		-1531.97		-1504.64		-0.02	-0.06	-1504.72	
90331	M				52.54		2.1674		6.777				79282.65
		1.450	-0.34	1.04		-9275.27		-9109.90		-0.03	-0.09	-9110.02	
1258	M				52.58		2.1738		6.774				70172.64
		1.614	0.03	-0.40		2776.93		2727.43		-0.06	-0.09	2727.28	
1259	K				52.62		2.1749		6.768				72899.92

1	2	3	4	5	6	7	8	9	10	11	12	13	14
1259	K				52.62		2.1749		6.768				72899.92
		1.552	-0.17	-0.76		-683.79		-671.60		-0.03	-0.09	-671.72	
1260	K				52.66		2.1761		6.765				72228.19
		1.460	0.06	0.84		-8590.25		-8437.15		-0.06	-0.09	-8437.30	
90329	K				52.69		2.1775		6.758				63790.89
		0.044	-0.01	0.06		-392.85		-385.85		0.00	0.00	-385.85	
1261	K				52.69		2.1776		6.758				63405.04
		43.790	0.70	9.79		14394.29		14136.96		-1.70	-2.60	14132.66	

37 A HAAPAJÄRVI-NIVALA 1991.15

55138	K				51.25		2.1545		5.948				103809.73
		0.020	0.00	0.13		-214.45		-210.62		0.00	0.01	-210.61	
90101	K				51.25		2.1545		5.949				103599.12
		2.135	-0.40	1.84		-6794.10		-6672.86		0.19	0.11	-6672.56	
55137.1	R				51.32		2.1541		5.971				96926.56
		1.625	0.10	0.29		1728.57		1697.73		0.15	0.08	1697.96	
55136.1	M				51.37		2.1493		5.988				98624.53
		0.788	-0.07	-0.48		-2327.36		-2285.81		0.07	0.04	-2285.70	
55135.1	S				51.40		2.1502		5.996				96338.83
		1.852	0.14	0.79		1258.19		1235.73		0.18	0.10	1236.01	
47128.1	S				51.46		2.1535		6.017				97574.83
		1.022	0.09	0.66		978.38		960.92		0.11	0.05	961.08	
47125	M				51.48		2.1540		6.029				98535.92
		1.632	-1.50	0.35		-8363.57		-8214.30		0.16	0.08	-8214.06	
KP36	M				51.53		2.1517		6.047				90321.86
		1.398	-0.23	0.36		-3806.90		-3738.95		0.14	0.07	-3738.74	
47126	M				51.58		2.1500		6.063				86583.12
		2.312	0.12	0.95		889.04		873.18		0.25	0.12	873.55	
47127	M				51.65		2.1523		6.091				87456.67
		1.713	-0.14	0.58		-4208.78		-4133.67		0.19	0.09	-4133.39	
61303	S				51.70		2.1546		6.113				83323.29
		0.048	0.01	-0.19		1172.48		1151.55		0.00	0.00	1151.55	
47129	S				51.70		2.1543		6.113				84474.83
		0.870	-0.01	0.38		488.85		480.12		0.10	0.05	480.27	
VR888	P				51.72		2.1546		6.125				84955.10
		1.800	0.10	0.17		1582.66		1554.42		0.21	0.09	1554.72	
90103	K				51.76		2.1549		6.149				86509.82
		1.945	0.03	1.00		970.10		952.79		0.23	0.10	953.12	
47131	M				51.81		2.1563		6.175				87462.94
		1.666	0.13	-0.55		1506.14		1479.26		0.20	0.09	1479.55	
47132	M				51.85		2.1573		6.198				88942.49
		1.914	0.57	0.15		7934.98		7793.40		0.24	0.10	7793.74	
47133	K				51.90		2.1565		6.225				96736.23
		1.795	-0.47	-0.38		-6004.94		-5897.79		0.22	0.09	-5897.48	
90104	M				51.94		2.1573		6.250				90838.76
		2.590	0.02	1.59		-299.57		-294.22		0.33	0.13	-293.76	
90105	M				52.01		2.1576		6.287				90545.01
		1.989	0.02	0.53		1384.97		1360.25		0.26	0.10	1360.61	
90106	K				52.06		2.1577		6.316				91905.62
		0.030	0.00	-0.09		-206.17		-202.49		0.00	0.00	-202.49	
47136	K				52.06		2.1578		6.316				91703.13
		29.144	-1.49	8.08		-12331.46		-12111.35		3.23	1.50	-12106.62	

37 B NIVALA-RAUDASKYLÄ 1991.27

47136	K				52.06		2.1578		6.316				91703.13
		1.818	-0.84	0.52		-7341.67		-7210.68		0.22	0.09	-7210.37	
47137	M				52.10		2.1596		6.342				84492.77
		1.345	-0.08	0.44		-1105.67		-1085.95		0.17	0.07	-1085.71	
90107	R				52.13		2.1591		6.361				83407.06
		1.088	-0.12	0.24		-1678.94		-1648.98		0.14	0.06	-1648.78	
47138	M				52.16		2.1598		6.377				81758.27
		2.210	-0.20	0.67		-1964.67		-1929.63		0.28	0.11	-1929.24	
47139	M				52.21		2.1625		6.409				79829.04

1	2	3	4	5	6	7	8	9	10	11	12	13	14
47139	M				52.21		2.1625		6.409				79829.04
		1.740	0.07	0.85		-200.55		-196.97		0.23	0.09	-196.65	
47140	S				52.26		2.1642		6.435				79632.38
		2.409	-0.08	0.74		-1507.09		-1480.21		0.31	0.13	-1479.77	
47141	M				52.31		2.1649		6.470				78152.61
		2.703	-0.19	0.78		-2376.86		-2334.46		0.34	0.14	-2333.98	
90108	R				52.38		2.1665		6.509				75818.62
		2.320	-0.03	-0.99		-1058.98		-1040.09		0.29	0.12	-1039.68	
61305	R				52.43		2.1678		6.543				74778.94
		1.317	0.27	0.34		2029.49		1993.30		0.17	0.07	1993.54	
47144	K				52.46		2.1674		6.562				76772.48
		16.950	-1.20	3.59		-15204.95		-14933.69		2.15	0.88	-14930.66	

37 C RAUDASKYLÄ-YLIVIESKA 1990.66

47144	K				52.46		2.1674		6.562				76772.48
		0.025	-0.03	0.30		-864.59		-849.17		0.00	0.00	-849.17	
90320	K				52.46		2.1675		6.562				75923.31
		1.442	-0.16	1.39		-6891.14		-6768.26		0.18	0.07	-6768.01	
47145	M				52.50		2.1689		6.582				69155.30
		0.746	-0.14	-0.48		-3761.19		-3694.13		0.10	0.04	-3693.99	
61306	R				52.51		2.1703		6.592				65461.32
		0.784	-0.01	0.35		82.26		80.79		0.10	0.04	80.93	
90321	M				52.54		2.1713		6.603				65542.24
		1.002	-0.08	0.26		-169.57		-166.55		0.13	0.05	-166.37	
61307	R				52.56		2.1731		6.616				65375.88
		1.064	-0.05	1.02		2305.12		2264.03		0.13	0.06	2264.22	
90322	S				52.59		2.1745		6.631				67640.10
		0.636	-0.34	1.09		-2932.41		-2880.14		0.08	0.03	-2880.03	
61308	M				52.61		2.1755		6.639				64760.07
		0.802	0.02	0.29		1802.69		1770.56		0.10	0.04	1770.70	
90323	M				52.63		2.1769		6.650				66530.77
		0.514	-0.01	-0.92		-837.21		-822.29		0.06	0.03	-822.20	
61309	R				52.64		2.1778		6.657				65708.57
		0.784	0.18	1.10		-776.26		-762.42		0.09	0.04	-762.29	
90324	M				52.66		2.1789		6.666				64946.28
		1.160	0.07	0.39		277.13		272.19		0.13	0.06	272.38	
61310	M				52.69		2.1800		6.680				65218.66
		0.264	0.02	-0.74		1345.94		1321.95		0.03	0.01	1321.99	
90325	S				52.70		2.1799		6.684				66540.65
		0.988	-0.07	-1.23		-2540.85		-2495.58		0.12	0.05	-2495.41	
61311	R				52.71		2.1793		6.697				64045.25
		1.982	0.21	-0.29		5204.54		5111.78		0.24	0.10	5112.12	
90326	K				52.74		2.1729		6.723				69157.38
		0.034	-0.01	-0.05		-483.64		-475.02		0.00	0.00	-475.02	
47014	K				52.75		2.1731		6.723				68682.35
		1.868	-0.05	0.67		-6432.95		-6318.29		0.22	0.10	-6317.97	
47013	M				52.77		2.1777		6.747				62364.39
		1.104	-0.11	0.57		-2448.14		-2404.51		0.13	0.06	-2404.32	
90330	M				52.79		2.1790		6.760				59960.06
		0.570	-0.07	0.31		-1722.36		-1691.67		0.04	0.03	-1691.60	
90327	S				52.78		2.1798		6.765				58268.46
		0.704	-0.02	1.12		-266.99		-262.23		-0.02	0.38	-261.87	
1262	S				52.76		2.1792		6.762				58006.60
		0.846	0.00	0.41		362.80		356.33		-0.05	-0.66	355.62	
90328	S				52.73		2.1786		6.757				58362.23
		1.272	0.20	-0.40		5134.71		5043.21		0.01	-0.40	5042.82	
1261	K				52.69		2.1776		6.758				63405.04
		18.591	-0.45	5.16		-13612.10		-13369.41		1.82	0.13	-13367.46	

38.1 A JYVÄSKYLÄ-ÄÄNEKOSKI 1989.39

123A	K				45.27		2.0516		4.404				84025.95
		1.140	-0.18	-0.79		-3181.43		-3124.33		0.11	-0.61	-3124.83	
39047	S				45.27		2.0499		4.415				80901.12

1	2	3	4	5	6	7	8	9	10	11	12	13	14
39047	S				45.27		2.0499		4.415				80901.12
		1.664	1.17	-0.84		15399.16		15122.74		0.13	0.18	15123.05	
55206	M				45.32		2.0495		4.427				96024.17
		2.054	2.92	2.52		33868.57		33260.52		0.02	0.22	33260.76	
2041	S				45.38		2.0439		4.430				129284.92
		1.762	1.78	-1.67		18330.69		18001.52		0.08	0.19	18001.79	
2042	K				45.43		2.0417		4.437				147286.73
		2.018	-3.95	-3.19		-30082.27		-29542.14		0.08	0.22	-29541.84	
55207	M				45.50		2.0484		4.444				117744.88
		2.128	0.30	-2.04		-3007.07		-2953.09		0.10	0.23	-2952.76	
55208	M				45.57		2.0500		4.454				114792.12
		1.372	-1.78	-0.36		-10593.39		-10403.26		0.09	0.15	-10403.02	
2044	K				45.61		2.0524		4.462				104389.11
		2.172	-1.16	-1.56		-10846.73		-10652.09		0.12	0.24	-10651.73	
89201	M				45.69		2.0572		4.474				93737.37
		1.834	2.46	-2.83		14859.98		14593.35		0.17	0.20	14593.72	
89202	K				45.76		2.0574		4.490				108331.09
		1.868	-0.16	1.43		-2701.62		-2653.15		0.08	0.20	-2652.87	
89203	K				45.81		2.0596		4.497				105678.22
		2.128	1.09	-0.03		4009.76		3937.83		0.11	0.23	3938.17	
89204	K				45.88		2.0609		4.508				109616.39
		0.654	0.35	0.10		2229.22		2189.23		0.04	0.07	2189.34	
2596	M				45.90		2.0611		4.512				111805.73
		1.846	-0.79	1.66		-15721.72		-15439.72		0.14	0.20	-15439.38	
59058	R				45.97		2.0655		4.525				96366.35
		2.450	0.35	-0.68		3650.68		3585.21		0.18	0.27	3585.66	
59057	M				46.05		2.0656		4.542				99952.00
		1.666	1.08	0.72		-7478.55		-7344.44		0.13	0.18	-7344.13	
2599	M				46.11		2.0678		4.554				92607.88
		1.060	-0.01	-1.98		-733.90		-720.74		0.10	0.12	-720.52	
63040	S				46.15		2.0685		4.564				91887.35
		1.830	-0.53	0.72		-3148.88		-3092.42		0.24	0.20	-3091.98	
60017	R				46.21		2.0710		4.586				88795.37
		1.616	0.23	0.87		5223.59		5129.94		0.20	0.18	5130.32	
861469	M				46.27		2.0709		4.605				93925.69
		1.390	0.28	-0.37		18263.97		17936.48		0.16	0.15	17936.79	
2601	M				46.32		2.0678		4.620				111862.48
		1.960	0.08	0.68		2222.14		2182.29		0.28	0.21	2182.78	
59060	R				46.38		2.0685		4.647				114045.26
		2.212	0.03	-0.53		5100.70		5009.24		0.32	0.24	5009.80	
2603	M				46.45		2.0697		4.676				119055.06
		1.882	-0.48	-1.21		-3118.29		-3062.39		0.24	0.21	-3061.94	
62095	M				46.51		2.0731		4.699				115993.13
		1.684	-1.71	-0.19		-10203.62		-10020.72		0.20	0.18	-10020.34	
55210	K				46.58		2.0772		4.719				105972.79
		2.010	-0.28	0.85		-3914.84		-3844.68		0.14	0.22	-3844.32	
HT13A	K				46.62		2.0789		4.732				102128.47
		1.018	0.20	-0.16		2053.05		2016.25		0.00	0.11	2016.36	
55211	K				46.60		2.0780		4.732				104144.83
		1.748	0.85	-2.03		7942.73		7800.38		0.23	0.19	7800.80	
55212	K				46.63		2.0768		4.754				111945.64
		2.362	-1.04	0.35		146.06		143.44		0.33	0.26	144.03	
55213	M				46.68		2.0774		4.785				112089.66
		2.376	-0.54	2.13		-6932.23		-6807.99		0.33	0.26	-6807.40	
55215	K				46.74		2.0789		4.816				105282.26
		49.904	0.56	-8.43		21635.75		21247.25		4.35	4.70	21256.30	

38.1 B ÄÄNEKOSKI-LAAJARANTA 1989.45

55215	K				46.74		2.0789		4.816				105282.26
		2.086	0.29	0.96		3742.95		3675.87		0.27	0.23	3676.37	
55216	M				46.77		2.0780		4.842				108958.63
		1.594	-0.34	-0.87		-6183.99		-6073.17		0.22	0.17	-6072.78	
AP0501	M				46.81		2.0795		4.863				102885.86
		2.730	0.39	1.87		6303.38		6190.42		0.24	0.30	6190.96	
55132	M				46.91		2.0794		4.886				109076.81

1	2	3	4	5	6	7	8	9	10	11	12	13	14
55132	M				46.91		2.0794		4.886				109076.81
		0.036	0.02	0.10		338.15		332.09		0.00	0.00	332.09	
89205	M				46.91		2.0793		4.886				109408.91
		1.396	0.47	1.19		5474.22		5376.12		-0.05	0.15	5376.22	
55131	M				46.94		2.0784		4.881				114785.13
		0.834	-0.41	0.82		2261.10		2220.58		0.01	0.09	2220.68	
89206	K				46.96		2.0786		4.882				117005.81
		1.516	-1.38	-1.00		-5272.54		-5178.05		-0.04	0.17	-5177.92	
55130	M				46.99		2.0806		4.878				111827.89
		1.914	0.72	-2.27		8489.36		8337.23		-0.14	0.21	8337.30	
55129	M				47.01		2.0808		4.865				120165.19
		1.798	0.88	-0.87		15475.79		15198.47		-0.01	0.20	15198.66	
89207	K				47.05		2.0797		4.865				135363.85
		0.314	0.57	0.08		10183.25		10000.75		0.02	0.24	10001.01	
89209	K				47.06		2.0778		4.867				145364.87
		0.024	0.05	-0.07		999.53		981.61		0.00	0.00	981.61	
89208	K				47.06		2.0776		4.867				146346.48
		14.242	1.26	-0.06		41811.20		41061.93		0.52	1.76	41064.21	

38.1 C LAAJARANTA-VIITASAARI 1989.67

89208	K				47.06		2.0776		4.867				146346.48
		0.024	-0.05	-0.07		-999.53		-981.61		0.00	0.00	-981.61	
89209	K				47.06		2.0778		4.867				145364.87
		0.316	-0.54	0.45		-10183.75		-10001.24		-0.02	0.25	-10001.01	
89207	K				47.05		2.0797		4.865				135363.85
		0.286	-0.47	-0.48		-9793.43		-9617.94		0.00	0.03	-9617.91	
55128	M				47.06		2.0818		4.865				125745.94
		2.048	-0.77	1.82		-12656.30		-12429.54		0.01	0.22	-12429.31	
55127	M				47.12		2.0838		4.865				113316.64
		1.926	0.67	-1.26		11458.67		11253.36		0.14	0.21	11253.71	
55126	M				47.19		2.0813		4.879				124570.35
		1.952	-0.54	0.87		-8544.76		-8391.65		0.23	0.21	-8391.21	
55125	M				47.24		2.0820		4.901				116179.15
		1.202	0.37	0.33		6298.87		6186.01		0.15	0.13	6186.29	
89210	K				47.28		2.0809		4.915				122365.43
		0.660	-0.87	0.15		-15167.30		-14895.54		0.06	0.07	-14895.41	
55124	M				47.30		2.0840		4.921				107470.02
		2.280	-0.07	2.04		371.67		365.01		0.14	0.25	365.40	
55123	M				47.37		2.0837		4.935				107835.42
		1.702	0.04	0.13		3485.39		3422.94		0.20	0.19	3423.33	
55122	M				47.43		2.0842		4.954				111258.75
		1.292	-0.17	-0.02		-2709.66		-2661.11		0.09	0.14	-2660.88	
89211	K				47.47		2.0855		4.962				108597.88
		1.780	0.37	1.09		21472.13		21087.43		0.07	0.19	21087.69	
89212	K				47.53		2.0826		4.969				129685.57
		1.474	-0.59	2.24		-13490.86		-13249.16		0.03	0.16	-13248.97	
89213	K				47.58		2.0864		4.973				116436.60
		1.438	-0.78	1.92		-14645.79		-14383.46		0.12	0.16	-14383.18	
89214	M				47.63		2.0899		4.985				102053.42
		1.354	0.12	1.45		3949.82		3879.08		0.08	0.15	3879.31	
89215	M				47.68		2.0890		4.992				105932.74
		1.576	0.37	0.13		19549.12		19198.96		0.06	0.17	19199.19	
55118	M				47.73		2.0866		4.998				125131.92
		1.036	0.25	-0.09		4767.49		4682.08		-0.01	0.11	4682.18	
89216	K				47.74		2.0859		4.997				129814.11
		2.442	-0.23	-2.46		-6574.78		-6457.00		0.19	0.27	-6456.54	
55117	M				47.81		2.0879		5.016				123357.57
		1.534	-0.53	-1.67		-14020.40		-13769.30		0.09	0.17	-13769.04	
89225	M				47.87		2.0926		5.024				109588.52
		1.550	-0.29	-1.00		94.23		92.54		0.08	0.17	92.79	
55115	M				47.92		2.0960		5.032				109681.31
		1.390	1.17	-1.24		21392.11		21009.10		0.14	0.15	21009.39	
60022	M				47.96		2.0956		5.045				130690.71
		1.640	-0.08	-1.61		-4988.19		-4898.87		0.09	0.18	-4898.60	
55113	M				48.02		2.0925		5.054				125792.11

1	2	3	4	5	6	7	8	9	10	11	12	13	14
55113	M				48.02		2.0925		5.054				125792.11
		2.360	-1.59	-1.56		-24963.83		-24516.86		0.19	0.26	-24516.41	
55112	K				48.10		2.0981		5.073				101275.70
		2.022	1.05	1.03		23096.37		22682.87		0.04	0.22	22683.13	
55111	M				48.15		2.0953		5.077				123958.83
		1.852	-0.72	1.73		-11440.37		-11235.57		0.09	0.20	-11235.28	
55110	K				48.22		2.1007		5.086				112723.55
		1.180	0.48	-1.08		19643.07		19291.44		0.06	0.13	19291.63	
89217	M				48.26		2.0976		5.091				132015.18
		1.162	-0.24	-0.14		-1836.96		-1804.07		0.05	0.13	-1803.89	
55109	K				48.30		2.0985		5.096				130211.29
		2.082	-0.36	-2.81		-14966.86		-14698.96		0.10	0.23	-14698.63	
89218	K				48.36		2.1018		5.106				115512.65
		1.230	0.14	0.28		13914.75		13665.69		0.11	0.13	13665.93	
89219	M				48.40		2.0999		5.116				129178.59
		1.226	1.19	-0.24		20068.73		19709.47		0.11	0.13	19709.71	
55107	K				48.45		2.0971		5.127				148888.29
		1.590	-0.69	1.65		-23563.29		-23141.50		0.13	0.17	-23141.20	
55106	K				48.49		2.1021		5.140				125747.10
		45.606	-3.36	1.58		-20983.64		-20607.38		2.82	5.18	-20599.38	

38.2 A VIITASAARI-HÄNNILÄNSALMI 1989.74

55106	K				48.49		2.1021		5.140				125747.10
		1.856	-0.47	-2.05		-12508.00		-12284.14		0.16	1.15	-12282.83	
55105	M				48.55		2.1038		5.156				113464.26
		1.458	-1.24	0.05		-14254.89		-13999.81		0.04	0.11	-13999.66	
55102	K				48.59		2.1071		5.160				99464.60
		3.314	-1.71	-2.00		-26762.89		-26283.96		0.20	1.26	-26282.50	

38.2 B HÄNNILÄNSALMI-SEIKKA 1989.75

55102	K				48.59		2.1071		5.160				99464.60
		2.422	1.22	1.57		22300.18		21901.14		0.10	0.18	21901.42	
55217	K				48.66		2.1042		5.170				121366.01
		0.716	-0.76	0.35		-13322.07		-13083.68		-0.03	0.05	-13083.66	
2672	M				48.67		2.1066		5.167				108282.35
		1.070	-0.37	0.52		-7017.31		-6891.75		0.00	0.08	-6891.67	
HT11B	M				48.69		2.1077		5.167				101390.68
		1.620	1.05	0.57		18327.99		18000.03		0.09	0.12	18000.24	
89220	K				48.74		2.1049		5.176				119390.91
		1.280	0.53	0.85		2905.60		2853.61		0.11	0.10	2853.82	
89221	K				48.78		2.1050		5.187				122244.73
		2.000	0.87	-0.51		13931.37		13682.06		0.20	0.15	13682.41	
2674	M				48.83		2.1040		5.207				135927.14
		1.282	-1.30	1.05		-24098.93		-23667.73		0.13	0.10	-23667.50	
55218	M				48.86		2.1099		5.219				112259.64
		0.962	0.90	0.06		15415.77		15139.96		0.10	0.07	15140.13	
781186	M				48.89		2.1074		5.228				127399.77
		0.776	-0.05	-0.20		-826.24		-811.45		0.08	0.06	-811.31	
2675	M				48.91		2.1081		5.236				126588.45
		1.322	-1.10	-0.27		-11336.36		-11133.55		0.12	0.10	-11133.33	
55219	K				48.95		2.1112		5.248				115455.12
		0.904	0.37	-0.05		854.31		839.02		0.08	0.07	839.17	
1474	M				48.98		2.1123		5.256				116294.29
		1.830	0.76	0.01		354.96		348.62		0.15	0.14	348.91	
89222	M				49.04		2.1119		5.271				116643.19
		2.098	1.40	-3.07		31159.99		30602.49		0.21	0.16	30602.86	
55168	K				49.11		2.1053		5.292				147246.05
		1.508	-0.05	2.19		-6825.42		-6703.28		0.14	0.11	-6703.03	
89223	K				49.14		2.1072		5.305				140543.02
		1.618	0.92	1.42		11606.34		11398.66		0.17	0.12	11398.95	
89224	K				49.19		2.1045		5.322				151941.96
		0.974	0.13	1.55		-5807.97		-5704.04		0.11	0.07	-5703.86	
1470	M				49.21		2.1052		5.332				146238.11

1	2	3	4	5	6	7	8	9	10	11	12	13	14
1470	M				49.21		2.1052		5.332				146238.11
		0.544	-0.03	-0.16		213.28		209.47		0.06	0.04	209.57	
55167	K				49.23		2.1057		5.337				146447.67
		1.498	-0.01	-0.97		569.54		559.34		0.14	0.11	559.59	
1469	M				49.28		2.1064		5.352				147007.27
		0.614	-0.19	-0.87		-4038.42		-3966.16		0.06	0.05	-3966.05	
55166	K				49.29		2.1073		5.358				143041.22
		0.420	0.00	0.40		-4053.71		-3981.18		0.04	0.03	-3981.11	
89328	K				49.31		2.1083		5.362				139060.10
		1.660	-0.24	4.24		-16322.36		-16030.35		0.14	0.12	-16030.09	
89327	M				49.36		2.1117		5.376				123030.03
		0.194	-0.01	-0.09		-4150.23		-4075.99		0.01	0.01	-4075.97	
55165	M				49.36		2.1125		5.377				118954.06
		1.108	-0.20	0.89		8939.20		8779.30		0.07	0.08	8779.45	
89326	M				49.40		2.1114		5.383				127733.50
		0.876	0.00	0.75		6299.20		6186.51		0.08	0.07	6186.66	
55164	K				49.43		2.1108		5.391				133920.16
		0.368	0.01	0.36		-15687.34		-15406.73		0.04	0.03	-15406.66	
89325	M				49.44		2.1141		5.395				118513.49
		1.456	0.20	1.92		6339.74		6226.35		0.14	0.11	6226.60	
89324	M				49.48		2.1142		5.409				124740.10
		0.764	-0.04	0.03		12420.58		12198.42		0.07	0.06	12198.55	
89323	K				49.51		2.1129		5.416				136938.65
		0.832	0.33	0.71		5206.55		5113.42		0.08	0.06	5113.56	
1465	K				49.54		2.1128		5.424				142052.21
		1.240	-0.10	2.05		-12434.68		-12212.28		0.11	0.09	-12212.08	
891410	K				49.58		2.1161		5.435				129840.13
		0.692	-0.03	1.45		-6236.77		-6125.24		0.04	0.05	-6125.15	
1464	M				49.61		2.1176		5.439				123714.98
		1.244	-0.23	0.34		1920.38		1886.04		0.14	0.09	1886.27	
89322	M				49.64		2.1184		5.453				125601.26
		1.174	-0.25	-0.05		3056.67		3002.02		0.13	0.09	3002.24	
89321	K				49.68		2.1194		5.465				128603.49
		0.844	-0.07	0.08		-11255.32		-11054.09		0.09	0.06	-11053.94	
89329	M				49.71		2.1224		5.474				117549.56
		1.042	-0.13	0.09		-3131.44		-3075.46		0.11	0.08	-3075.27	
89330	M				49.74		2.1240		5.484				114474.28
		1.372	0.04	-0.43		3280.20		3221.56		0.09	0.10	3221.75	
55159	M				49.79		2.1235		5.494				117696.05
		0.816	0.13	1.07		5284.37		5189.91		0.08	0.06	5190.05	
891414	K				49.80		2.1243		5.501				122886.10
		2.218	0.03	0.19		1111.05		1091.20		0.24	0.16	1091.60	
89331	M				49.88		2.1257		5.525				123977.69
		1.962	-0.11	-2.82		-10442.76		-10256.11		0.17	0.15	-10255.79	
89332	M				49.94		2.1270		5.541				113721.91
		0.934	0.03	0.69		-637.87		-626.47		0.11	0.07	-626.29	
891415	S				49.97		2.1269		5.552				113095.62
		1.414	0.24	1.70		7963.26		7820.92		0.17	0.11	7821.20	
891416	M				50.01		2.1236		5.569				120916.81
		1.170	0.09	0.21		2512.61		2467.70		0.15	0.09	2467.94	
891417	M				50.04		2.1227		5.583				123384.74
		0.754	0.05	0.29		3767.71		3700.35		0.09	0.06	3700.50	
89333	M				50.06		2.1212		5.592				127085.23
		0.508	0.06	0.86		-13203.44		-12967.39		0.07	0.04	-12967.28	
1456	M				50.07		2.1237		5.598				114117.96
		0.152	0.08	0.02		4027.01		3955.02		-0.02	0.01	3955.01	
891418	M				50.07		2.1229		5.597				118072.97
		1.268	0.03	0.03		955.21		938.13		0.13	0.09	938.35	
891419	M				50.09		2.1229		5.610				119011.33
		1.036	0.01	1.41		4276.77		4200.32		0.12	0.08	4200.52	
55155	M				50.10		2.1232		5.621				123211.85
		1.116	-0.20	0.36		8383.31		8233.43		0.14	0.08	8233.65	
891420	M				50.13		2.1219		5.634				131445.51
		0.934	0.11	-0.05		549.38		539.56		0.12	0.07	539.75	
891421	M				50.15		2.1219		5.646				131985.26
		1.020	-0.02	1.07		-27.15		-26.67		0.10	0.08	-26.49	
891422	M				50.16		2.1220		5.656				131958.76

1	2	3	4	5	6	7	8	9	10	11	12	13	14
891422	M				50.16		2.1220		5.656				131958.76
		0.818	0.42	1.55		-7535.60		-7400.88		0.07	0.06	-7400.75	
55154	M				50.16		2.1237		5.663				124558.01
		1.778	0.30	0.45		2495.52		2450.91		0.20	0.13	2451.24	
55153	M				50.19		2.1238		5.682				127009.26
		1.932	0.04	-1.02		2118.76		2080.88		0.23	0.14	2081.25	
62040	M				50.25		2.1231		5.705				129090.51
		1.280	-0.33	-0.27		-6417.30		-6302.59		0.15	0.10	-6302.34	
62039	M				50.29		2.1237		5.720				122788.17
		1.112	-0.01	-0.07		-398.41		-391.29		0.11	0.08	-391.10	
89336	M				50.33		2.1241		5.730				122397.08
		1.050	-0.07	1.28		-4206.53		-4131.34		0.08	0.08	-4131.18	
89335	S				50.37		2.1255		5.738				118265.89
		0.866	0.02	0.86		4667.86		4584.42		0.07	0.06	4584.55	
89334	K				50.40		2.1251		5.745				122850.45
		0.014	0.00	0.02		146.27		143.66		0.00	0.00	143.66	
55150	K				50.40		2.1251		5.745				122994.11
		64.476	4.47	24.61		23947.36		23518.75		5.98	4.81	23529.54	

38.2 C SEIKKA-HAAPAJÄRVI 1991.63

55150	K				50.40		2.1251		5.745				122994.11
		1.604	-0.11	1.29		-7642.16		-7505.57		0.12	0.12	-7505.33	
55149	M				50.46		2.1284		5.759				115488.78
		2.256	0.24	-0.57		3127.95		3072.05		0.20	0.17	3072.42	
55148	M				50.54		2.1302		5.783				118561.20
		2.073	0.04	1.17		950.56		933.57		0.19	0.15	933.91	
55147	M				50.61		2.1314		5.806				119495.11
		2.188	-0.40	0.16		2076.84		2039.73		0.20	0.16	2040.09	
55146	M				50.68		2.1326		5.830				121535.20
		1.420	-0.05	-1.66		-1052.60		-1033.79		0.13	0.11	-1033.55	
55145	M				50.73		2.1329		5.845				120501.65
		2.334	-0.06	-0.76		-268.30		-263.51		0.19	0.17	-263.15	
55144	M				50.81		2.1307		5.868				120238.50
		1.363	-0.05	1.51		-1907.62		-1873.54		0.08	0.10	-1873.36	
90102	M				50.86		2.1300		5.877				118365.14
		1.022	-0.12	0.63		-2997.86		-2944.29		0.05	0.08	-2944.16	
55143	M				50.90		2.1307		5.883				115420.99
		1.988	-0.06	2.13		-820.00		-805.35		0.11	0.15	-805.09	
55142	M				50.96		2.1333		5.897				114615.90
		2.124	-0.07	3.34		-4413.45		-4334.61		0.14	0.16	-4334.31	
55141	K				51.04		2.1385		5.914				110281.58
		1.754	-0.41	1.96		-7508.36		-7374.27		0.09	0.13	-7374.05	
55140	M				51.10		2.1431		5.924				102907.53
		1.795	-0.14	2.84		-1806.12		-1773.88		0.09	0.13	-1773.66	
55139	M				51.17		2.1518		5.935				101133.87
		2.327	0.18	1.85		2724.20		2675.58		0.11	0.17	2675.86	
55138	K				51.25		2.1545		5.948				103809.73
		24.248	-1.01	13.89		-19536.93		-19187.88		1.70	1.80	-19184.38	

39 A IISALMI-RUNNI 1991.41

46008	K				50.71		2.1521		5.006				94425.81
		1.388	0.58	1.62		3908.27		3838.52		0.11	-0.01	3838.62	
91311	K				50.76		2.1531		5.019				98264.43
		1.136	-0.34	1.22		-7665.46		-7528.66		0.11	-0.01	-7528.56	
AP0203	S				50.79		2.1545		5.032				90735.87
		1.154	0.22	0.55		4712.90		4628.79		0.10	-0.01	4628.88	
68022	K				50.80		2.1512		5.043				95364.75
		1.236	-0.26	0.19		-6603.02		-6485.17		0.10	-0.01	-6485.08	
91310	K				50.81		2.1526		5.055				88879.66
		1.161	-0.09	0.68		-1025.26		-1006.96		0.09	-0.01	-1006.88	
46011	K				50.81		2.1550		5.066				87872.79
		1.142	0.55	-0.68		11689.24		11480.63		0.09	-0.01	11480.71	
91309	M				50.82		2.1524		5.076				99353.50

1	2	3	4	5	6	7	8	9	10	11	12	13	14
91309	M				50.82		2.1524		5.076				99353.50
		1.656	-0.60	3.26		-3900.14		-3830.53		0.12	-0.01	-3830.42	
46012	M				50.81		2.1523		5.090				95523.08
		3.183	0.13	1.59		5261.17		5167.27		0.28	-0.03	5167.52	
91308	M				50.85		2.1488		5.123				100690.59
		1.440	-1.08	1.31		-8062.03		-7918.13		0.13	-0.01	-7918.01	
91307	P				50.87		2.1521		5.138				92772.58
		1.406	-0.79	2.90		-5729.78		-5627.52		0.11	-0.01	-5627.42	
65012	R				50.88		2.1543		5.151				87145.15
		1.857	0.35	2.29		2985.34		2932.06		0.11	-0.02	2932.15	
46015	K				50.86		2.1525		5.164				90077.31
		16.759	-1.33	14.93		-4428.78		-4349.72		1.35	-0.14	-4348.51	

39 B RUNNI-NIEMISKYLÄ 1991.36

46015	K				50.86		2.1525		5.164				90077.31
		0.688	0.21	0.76		2800.61		2750.62		0.05	-0.01	2750.66	
91306	P				50.85		2.1512		5.169				92827.98
		0.982	0.30	1.81		153.27		150.54		0.07	-0.01	150.60	
91305	M				50.85		2.1489		5.177				92978.58
		1.132	0.15	-0.16		1054.00		1035.18		0.08	-0.01	1035.25	
63041	M				50.85		2.1455		5.186				94013.83
		1.206	-0.16	0.41		-429.74		-422.07		0.09	-0.01	-421.99	
91304	S				50.85		2.1459		5.196				93591.84
		1.383	-0.14	1.21		-2935.68		-2883.27		0.10	-0.01	-2883.18	
63042	M				50.84		2.1476		5.208				90708.67
		1.574	-0.04	0.16		-401.58		-394.41		0.11	-0.01	-394.31	
46018	K				50.83		2.1476		5.220				90314.36
		1.630	0.03	2.32		1273.53		1250.79		0.15	-0.01	1250.93	
63043	K				50.85		2.1473		5.237				91565.29
		1.643	-0.16	2.13		-381.92		-375.11		0.15	-0.01	-374.97	
63044	M				50.87		2.1476		5.255				91190.30
		1.230	0.16	-0.03		3207.95		3150.68		0.11	-0.01	3150.78	
91303	K				50.88		2.1476		5.268				94341.08
		1.498	-0.03	0.00		-1027.47		-1009.13		0.14	-0.01	-1009.00	
46021	M				50.92		2.1502		5.284				93332.08
		0.763	0.04	0.74		2444.91		2401.27		0.07	-0.01	2401.33	
90121	M				50.94		2.1509		5.292				95733.41
		1.222	0.05	1.48		3003.29		2949.69		0.11	-0.01	2949.79	
90120	M				50.97		2.1512		5.305				98683.20
		0.804	-0.14	0.34		-5355.30		-5259.72		0.08	-0.01	-5259.65	
46022	K				50.99		2.1526		5.315				93423.56
		1.347	0.04	1.02		4771.43		4686.28		0.13	-0.01	4686.40	
91302	K				51.02		2.1525		5.330				98109.96
		0.779	0.03	0.20		5246.00		5152.37		0.08	-0.01	5152.44	
63008	K				51.03		2.1527		5.339				103262.40
		1.879	-0.10	1.68		252.12		247.62		0.18	-0.02	247.78	
46024	K				51.05		2.1541		5.359				103510.19
		1.604	0.44	0.45		2406.63		2363.68		0.13	-0.01	2363.80	
91301	K				51.06		2.1550		5.375				105873.98
		0.644	-0.26	-0.83		-3985.93		-3914.80		0.05	-0.01	-3914.76	
46025	K				51.06		2.1574		5.381				101959.23
		2.149	0.07	-0.92		3645.95		3580.90		0.21	-0.02	3581.09	
90119	K				51.08		2.1573		5.405				105540.32
		0.106	-0.01	0.00		-1795.07		-1763.04		0.01	0.00	-1763.03	
46026	K				51.08		2.1578		5.406				103777.29
		24.263	0.48	12.77		13947.00		13698.08		2.10	-0.21	13699.97	

39 C NIEMISKYLÄ-PARKKIMA 1995.40

46026	K				51.08		2.1578		5.406				103777.29
		1.714	0.63	0.37		6982.67		6858.09		0.08	-0.01	6858.16	
63009	K				51.10		2.1580		5.424				110635.44
		1.607	0.29	-0.55		13705.66		13461.11		0.08	-0.01	13461.18	
47102	K				51.11		2.1554		5.441				124096.61

1	2	3	4	5	6	7	8	9	10	11	12	13	14
47102	K				51.11		2.1554		5.441				124096.61
		1.524	0.23	1.21		2034.15		1997.85		0.07	-0.01	1997.91	
63010	M				51.12		2.1549		5.457				126094.52
		1.460	-0.07	0.41		4442.81		4363.53		0.07	-0.01	4363.59	
90118	R				51.12		2.1539		5.472				130458.11
		1.047	-0.04	1.03		-592.68		-582.10		0.04	-0.01	-582.07	
90117	M				51.12		2.1540		5.481				129876.04
		1.311	-0.11	1.17		1595.60		1567.12		0.05	-0.01	1567.16	
47104	M				51.12		2.1540		5.492				131443.20
		2.018	0.69	1.18		14040.42		13789.84		0.08	-0.02	13789.90	
47105	M				51.11		2.1518		5.509				145233.10
		2.168	0.41	1.28		14290.66		14035.54		0.09	-0.02	14035.61	
47106	M				51.10		2.1442		5.529				159268.72
		2.374	-0.47	1.68		-5147.79		-5055.87		0.10	-0.02	-5055.79	
47107	M				51.10		2.1419		5.551				154212.92
		2.458	0.01	-1.47		-3842.68		-3774.05		0.12	-0.02	-3773.95	
47108	M				51.12		2.1416		5.577				150438.97
		1.365	-0.01	-1.66		915.09		898.74		0.07	-0.01	898.80	
95101	M				51.13		2.1412		5.593				151337.76
		1.177	0.23	-0.13		4019.19		3947.41		0.06	-0.01	3947.46	
47109	M				51.14		2.1406		5.606				155285.23
		2.172	-0.28	-1.50		-12873.81		-12643.90		0.11	-0.02	-12643.81	
47110	M				51.16		2.1421		5.630				142641.42
		1.777	-0.04	-1.28		1634.22		1605.05		0.09	-0.01	1605.13	
90116	S				51.18		2.1401		5.649				144246.53
		1.452	-0.03	1.59		4426.89		4347.82		0.08	-0.01	4347.89	
47111	K				51.19		2.1392		5.666				148594.42
		1.912	-0.29	-1.47		-2264.95		-2224.49		0.10	-0.02	-2224.41	
47112	K				51.21		2.1386		5.689				146370.02
		2.328	-0.07	-2.37		1188.61		1167.38		0.12	-0.02	1167.48	
47113	M				51.24		2.1370		5.715				147537.50
		1.797	-0.09	-1.59		2860.45		2809.35		0.10	-0.01	2809.44	
47114	K				51.26		2.1353		5.737				150346.93
		31.661	0.99	-2.10		47414.49		46568.39		1.51	-0.25	46569.65	

39 D PARKKIMA-HAAPAJÄRVI 1994.68

47114	K				51.26		2.1353		5.737				150346.93
		2.053	0.35	1.08		6612.51		6494.38		0.13	-0.02	6494.49	
47115	K				51.30		2.1338		5.762				156841.42
		2.778	-0.46	-1.25		-4249.66		-4173.74		0.18	-0.02	-4173.58	
47116	K				51.34		2.1344		5.795				152667.83
		2.364	0.24	0.37		1078.67		1059.40		0.14	-0.02	1059.52	
47117	M				51.36		2.1333		5.820				153727.35
		2.173	-0.83	0.99		-10311.81		-10127.59		0.12	-0.02	-10127.49	
47118	M				51.37		2.1355		5.843				143599.87
		2.548	-0.27	0.38		-7708.21		-7570.51		0.14	-0.02	-7570.39	
62093	S				51.38		2.1377		5.869				136029.48
		2.213	0.18	0.84		7237.99		7108.70		0.12	-0.02	7108.80	
62094	M				51.40		2.1380		5.892				143138.27
		0.357	-0.06	-0.32		-1799.50		-1767.36		0.02	0.00	-1767.34	
90115	R				51.40		2.1384		5.896				141370.93
		0.568	-0.03	-0.12		-406.56		-399.30		0.03	0.00	-399.27	
90113	P				51.40		2.1385		5.902				140971.65
		1.788	-0.25	-0.08		-5765.12		-5662.16		0.10	-0.01	-5662.07	
90112	R				51.41		2.1416		5.921				135309.58
		1.372	-0.56	-0.80		-6284.25		-6172.03		0.08	-0.01	-6171.96	
61302	R				51.42		2.1445		5.935				129137.62
		2.244	0.16	-1.66		2972.24		2919.17		0.12	-0.02	2919.27	
62092	M				51.43		2.1442		5.958				132056.89
		0.042	-0.03	-0.23		-1735.43		-1704.44		0.00	0.00	-1704.44	
47122	M				51.43		2.1446		5.958				130352.45
		1.834	-0.59	1.38		-9765.16		-9590.81		0.10	-0.01	-9590.72	
90111	M				51.44		2.1471		5.977				120761.72
		0.938	-0.03	-0.61		-1121.32		-1101.31		0.05	-0.01	-1101.27	
90114	P				51.44		2.1480		5.987				119660.46

1	2	3	4	5	6	7	8	9	10	11	12	13	14
90114	P				51.44		2.1480		5.987				119660.46
		0.980	-0.71	-0.96		-11107.78		-10909.50		0.06	-0.01	-10909.45	
90110	M				51.45		2.1509		5.997				108751.02
		1.840	-0.30	-2.22		-11379.51		-11176.42		0.10	-0.01	-11176.33	
47128.2	S				51.46		2.1535		6.017				97574.68
		1.846	-0.12	-1.51		-1258.38		-1235.92		-0.11	-0.01	-1236.04	
55135.2	S				51.40		2.1502		5.996				96338.64
		0.785	0.11	0.41		2335.32		2293.63		-0.04	-0.01	2293.58	
55136.2	M				51.37		2.1493		5.988				98632.22
		1.622	-0.15	0.28		-1737.01		-1706.02		-0.09	-0.01	-1706.12	
55137.2	R				51.32		2.1541		5.971				96926.10
		1.762	0.25	-1.11		3666.04		3600.61		-0.10	-0.01	3600.50	
90109.2	K				51.26		2.1547		5.952				100526.59
		0.380	0.10	0.85		3128.38		3072.55		-0.02	0.00	3072.53	
90101	K				51.25		2.1545		5.949				103599.12
		0.021	0.01	-0.40		214.56		210.73		0.00	-0.12	210.61	
55138	K				51.25		2.1545		5.948				103809.73
		32.508	-2.99	-4.69		-47384.00		-46537.94		1.13	-0.36	-46537.17	

40 TOIVALA-IISALMI 1991.42

62077	K				48.29		2.1069		4.229				95212.59
		2.086	-0.32	-1.58		-1114.70		-1094.75		0.13	-0.12	-1094.74	
61056	M				48.36		2.1073		4.245				94117.85
		2.075	-0.42	-0.62		-7307.95		-7177.20		0.08	-0.12	-7177.24	
91201	K				48.43		2.1109		4.254				86940.61
		1.913	-0.15	0.38		-1884.06		-1850.36		0.09	-0.11	-1850.38	
1841	K				48.49		2.1149		4.265				85090.24
		1.348	0.61	-0.74		8851.72		8693.40		0.07	-0.08	8693.39	
91202	K				48.53		2.1117		4.273				93783.63
		1.247	-0.39	-0.53		-5850.55		-5745.91		0.13	-0.07	-5745.85	
PL4	P				48.57		2.1188		4.289				88037.78
		2.748	-0.29	2.33		-2406.94		-2363.91		0.31	-0.15	-2363.75	
56001	K				48.65		2.1301		4.325				85674.03
		2.108	0.47	1.55		13586.36		13343.59		0.23	-0.12	13343.70	
74005	M				48.69		2.1318		4.351				99017.74
		2.609	0.06	1.06		-952.10		-935.09		0.26	-0.15	-934.98	
1845	M				48.78		2.1331		4.381				98082.75
		2.395	-0.41	0.58		-4431.78		-4352.60		0.22	-0.13	-4352.51	
PL8	P				48.86		2.1320		4.406				93730.25
		1.160	0.75	0.32		7951.73		7809.64		0.11	-0.07	7809.68	
91204	K				48.90		2.1295		4.420				101539.93
		1.235	-0.31	1.00		-6058.34		-5950.07		0.13	-0.07	-5950.01	
46005	K				48.94		2.1288		4.435				95589.92
		1.423	0.28	1.96		5880.47		5775.37		0.14	-0.08	5775.43	
91203	K				48.98		2.1276		4.452				101365.35
		0.668	1.00	1.43		6929.95		6806.09		0.06	-0.04	6806.11	
1848	M				49.00		2.1263		4.458				108171.47
		2.103	0.65	0.61		8771.91		8615.11		0.22	-0.12	8615.21	
1849	M				49.06		2.1250		4.484				116786.68
		1.987	0.04	0.56		919.38		902.95		0.20	-0.11	903.04	
1850	M				49.12		2.1245		4.508				117689.72
		2.719	-0.01	-0.46		-3396.00		-3335.30		0.25	-0.15	-3335.20	
59012	R				49.21		2.1293		4.537				114354.51
		1.915	-0.21	-0.63		-6266.98		-6155.00		0.19	-0.11	-6154.92	
91205	S				49.27		2.1320		4.559				108199.60
		2.215	1.52	-0.49		15348.60		15074.34		0.21	-0.12	15074.43	
91206	M				49.34		2.1303		4.583				123274.02
		2.802	-0.49	0.38		-3255.66		-3197.49		0.27	-0.16	-3197.38	
59014	M				49.43		2.1341		4.615				120076.65
		2.453	-0.31	0.14		-2071.22		-2034.22		0.23	-0.14	-2034.13	
1855	R				49.51		2.1360		4.641				118042.52
		1.149	-0.59	0.48		-6874.57		-6751.77		0.10	-0.06	-6751.73	
91207	K				49.55		2.1383		4.653				111290.78
		2.148	-0.92	-1.00		-14474.06		-14215.59		0.17	-0.12	-14215.54	
91208	K				49.63		2.1461		4.673				97075.24

1	2	3	4	5	6	7	8	9	10	11	12	13	14
91208	K				49.63		2.1461		4.673				97075.24
		0.848	-0.23	1.70		-6645.03		-6526.40		0.07	-0.05	-6526.38	
1857	M				49.66		2.1487		4.681				90548.87
		2.024	0.57	-0.08		5519.34		5420.82		0.16	-0.11	5420.87	
46006	K				49.73		2.1519		4.700				95969.73
		1.120	1.51	-0.13		13085.85		12852.29		0.09	-0.06	12852.32	
91209	K				49.77		2.1516		4.711				108822.05
		1.209	-0.36	0.43		-8020.61		-7877.48		0.12	-0.07	-7877.43	
1859	M				49.80		2.1568		4.725				100944.63
		1.720	0.00	-0.01		369.32		362.73		0.17	-0.10	362.80	
66026	M				49.86		2.1640		4.744				101307.42
		2.053	-1.05	-0.71		-14074.69		-13823.66		0.17	-0.12	-13823.61	
1861	S				49.93		2.1644		4.764				87483.82
		1.972	0.55	1.00		7170.62		7042.70		0.18	-0.11	7042.77	
1862	M				49.99		2.1583		4.786				94526.59
		2.000	-0.09	1.02		202.78		199.16		0.19	-0.11	199.24	
64089	R				50.05		2.1535		4.808				94725.83
		1.886	-0.07	0.26		1316.09		1292.60		0.18	-0.11	1292.67	
91210	R				50.11		2.1510		4.829				96018.50
		1.874	-0.35	-1.34		-7707.23		-7569.67		0.14	-0.11	-7569.64	
64087	R				50.18		2.1517		4.845				88448.87
		2.387	0.05	3.10		-123.24		-121.04		0.18	-0.13	-120.99	
64086	S				50.26		2.1488		4.867				88327.88
		1.799	0.08	2.03		7001.50		6876.49		0.16	-0.10	6876.55	
1868	M				50.32		2.1420		4.885				95204.43
		0.734	0.19	0.79		9276.53		9110.86		0.07	-0.04	9110.89	
91316	K				50.34		2.1403		4.893				104315.32
		1.609	-0.12	2.44		-2197.48		-2158.23		0.15	-0.09	-2158.17	
1869	M				50.39		2.1393		4.910				102157.15
		1.524	0.07	-0.11		5528.99		5430.23		0.12	-0.09	5430.26	
91317	R				50.44		2.1392		4.924				107587.41
		1.210	-0.02	-0.60		-350.17		-343.92		0.10	-0.07	-343.89	
64085	M				50.48		2.1418		4.936				107243.53
		1.620	-0.09	0.66		-2845.93		-2795.11		0.13	-0.09	-2795.07	
91314	S				50.54		2.1458		4.952				104448.47
		0.745	-0.50	1.55		-7791.28		-7652.18		-0.01	-0.04	-7652.23	
91315	K				50.55		2.1479		4.950				96796.23
		1.396	-0.14	1.08		923.06		906.58		0.07	-0.08	906.57	
1871	R				50.56		2.1487		4.958				97702.81
		0.805	-0.17	0.00		-634.81		-623.48		0.07	-0.05	-623.46	
91313	M				50.58		2.1488		4.966				97079.36
		1.323	-0.52	0.88		-7668.90		-7532.01		0.12	-0.07	-7531.96	
66027	R				50.62		2.1496		4.980				89547.40
		1.708	0.13	1.54		3222.45		3164.94		0.15	-0.10	3164.99	
1873	S				50.68		2.1493		4.997				92712.39
		1.013	0.11	-0.18		2353.74		2311.72		0.07	-0.06	2311.73	
91312	K				50.71		2.1519		5.006				95024.12
		0.043	-0.02	0.02		-609.18		-598.31		0.00	0.00	-598.31	
46008	K				50.71		2.1521		5.006				94425.81
		77.128	0.09	22.07		-803.06		-789.11		6.65	-4.36	-786.82	

41 A PIEKSÄMÄKI-SUONENJOKI 1983.75

593	K				45.44		2.0583		3.723				128375.90
		0.896	-0.04	-0.11		-5548.90		-5449.35		0.16	-0.04	-5449.23	
63004	M				45.47		2.0597		3.733				122926.67
		1.124	-0.19	0.25		-3334.71		-3274.88		0.18	0.01	-3274.69	
69025	P				45.51		2.0608		3.744				119651.98
		0.633	-0.10	0.16		710.41		697.66		0.10	0.01	697.77	
596	M				45.53		2.0612		3.750				120349.75
		2.281	-0.45	0.54		-1288.53		-1265.41		0.29	0.06	-1265.06	
62059	R				45.61		2.0626		3.768				119084.69
		1.820	-0.33	-0.98		5184.55		5091.56		0.21	0.05	5091.82	
64097	M				45.68		2.0618		3.781				124176.50
		0.878	-0.24	-0.40		-5591.54		-5491.24		0.08	0.02	-5491.14	
56008	M				45.71		2.0633		3.785				118685.36

1	2	3	4	5	6	7	8	9	10	11	12	13	14
56008	M				45.71		2.0633		3.785				118685.36
		2.042	-0.24	0.55		302.78		297.35		0.28	0.06	297.69	
600	K				45.78		2.0639		3.802				118983.05
		1.454	-0.06	0.24		4223.43		4147.68		0.20	0.04	4147.92	
56009	M				45.83		2.0642		3.814				123130.97
		0.992	-0.10	-0.80		485.09		476.39		0.15	0.03	476.57	
602	M				45.87		2.0646		3.824				123607.54
		3.900	-0.39	-1.24		-29.25		-28.72		0.79	0.11	-27.82	
68030	M				46.00		2.0665		3.872				123579.73
		2.758	-0.92	0.43		-12969.60		-12737.06		0.54	0.08	-12736.44	
58025	M				46.10		2.0738		3.905				110843.28
		1.271	-0.18	0.36		-459.11		-450.88		0.22	0.04	-450.62	
68006	K				46.15		2.0747		3.919				110392.66
		1.808	-0.18	-0.86		-2409.15		-2365.97		0.23	0.05	-2365.69	
68011	M				46.22		2.0773		3.933				108026.98
		1.742	-1.17	0.85		-4885.06		-4797.51		0.19	0.05	-4797.27	
45003	M				46.28		2.0784		3.944				103229.70
		1.606	-0.05	1.14		3457.54		3395.58		0.16	0.04	3395.78	
611	K				46.33		2.0767		3.954				106625.48
		1.200	-0.60	1.12		-1403.60		-1378.45		0.18	0.03	-1378.24	
64095	K				46.37		2.0769		3.965				105247.24
		1.096	-0.12	-0.10		3931.34		3860.87		0.19	0.03	3861.09	
613	K				46.41		2.0751		3.977				109108.33
		0.790	-0.06	0.30		-131.84		-129.48		0.15	0.02	-129.31	
614	K				46.44		2.0765		3.986				108979.02
		1.401	-0.16	1.01		5239.51		5145.60		0.28	0.04	5145.92	
64096	K				46.49		2.0762		4.004				114124.94
		1.382	-0.11	0.16		699.16		686.63		0.30	0.04	686.97	
616	K				46.54		2.0776		4.022				114811.91
		3.128	-0.96	0.23		-10599.30		-10409.34		0.65	0.09	-10408.60	
618	M				46.64		2.0781		4.062				104403.32
		4.112	-0.61	-0.03		6419.89		6304.83		0.88	0.11	6305.82	
620	K				46.78		2.0765		4.116				110709.14
		0.713	-0.14	0.15		-1279.93		-1256.99		0.15	0.02	-1256.82	
63028	K				46.81		2.0769		4.125				109452.31
		39.027	-7.40	2.97		-19276.82		-18931.13		6.56	0.99	-18923.58	

41 B SUONENJOKI-PIRTTISELKÄ 1985.37

63028	K				46.81		2.0769		4.125				109452.31
		1.323	-0.05	0.52		1068.83		1049.67		0.20	0.04	1049.91	
622	P				46.85		2.0746		4.139				110502.23
		0.368	-0.63	0.55		-4160.05		-4085.48		0.05	0.01	-4085.42	
623	S				46.87		2.0751		4.143				106416.80
		2.006	1.68	-1.78		17001.19		16696.43		0.25	0.06	16696.74	
624	K				46.94		2.0736		4.160				123113.53
		0.653	0.03	-0.86		5844.67		5739.89		0.12	0.02	5740.03	
625	K				46.96		2.0722		4.168				128853.56
		1.574	-0.05	1.24		3650.09		3584.65		0.00	0.04	3584.69	
626	K				47.00		2.0730		4.168				132438.25
		1.236	0.09	0.36		11769.36		11558.37		-0.19	0.03	11558.21	
627	K				46.99		2.0724		4.155				143996.47
		7.160	1.07	0.03		35174.08		34543.52		0.43	0.20	34544.15	

41 C PIRTTISELKÄ-KUOPIO 1985.42

627	K				46.99		2.0724		4.155				143996.47
		2.352	-0.08	2.70		-6048.51		-5940.08		-0.33	0.06	-5940.35	
629	M				46.99		2.0737		4.132				138056.11
		1.030	0.10	-1.47		3507.52		3444.65		-0.08	0.03	3444.60	
67007	K				47.00		2.0738		4.126				141500.71
		0.779	0.09	1.60		743.23		729.91		-0.05	0.02	729.88	
66010	M				47.01		2.0741		4.123				142230.59
		1.456	-0.24	1.80		-8635.86		-8481.07		-0.14	0.04	-8481.17	
632	K				47.02		2.0773		4.113				133749.42

1	2	3	4	5	6	7	8	9	10	11	12	13	14
632	K				47.02		2.0773		4.113				133749.42
		0.788	-0.41	1.59		-9783.46		-9608.13		-0.01	0.02	-9608.12	
633	K				47.04		2.0802		4.113				124141.30
		0.856	-0.05	0.12		1537.81		1510.26		0.08	0.02	1510.36	
634	K				47.07		2.0809		4.118				125651.67
		1.197	0.18	1.15		5421.24		5324.10		0.11	0.03	5324.24	
66011	M				47.11		2.0815		4.126				130975.91
		0.958	0.22	1.19		5621.69		5520.96		0.09	0.03	5521.08	
85201	K				47.15		2.0820		4.132				136496.98
		1.298	0.24	1.22		1690.43		1660.14		0.02	0.04	1660.20	
70013	M				47.18		2.0834		4.134				138157.18
		0.644	0.02	0.82		537.99		528.35		-0.03	0.02	528.34	
638	M				47.19		2.0837		4.132				138685.52
		2.194	-1.42	3.22		-21535.98		-21150.22		-0.10	0.06	-21150.26	
85202	M				47.24		2.0910		4.125				117535.25
		0.726	0.07	0.28		303.95		298.51		-0.09	0.02	298.44	
70014	M				47.24		2.0910		4.119				117833.69
		1.290	0.41	0.56		9938.30		9760.30		-0.20	0.04	9760.14	
73001	K				47.23		2.0880		4.105				127593.83
		0.674	-0.08	-0.02		7222.82		7093.44		-0.06	0.02	7093.40	
AP0701	P				47.24		2.0863		4.101				134687.22
		1.330	-0.08	0.72		371.62		364.96		-0.02	0.04	364.98	
642	K				47.27		2.0852		4.099				135052.20
		0.748	0.41	1.82		5183.88		5091.00		-0.04	0.02	5090.98	
74001	K				47.28		2.0840		4.097				140143.18
		2.102	0.93	3.10		14106.13		13853.39		-0.03	0.06	13853.42	
74002	M				47.33		2.0815		4.095				153996.60
		0.725	0.14	0.55		2266.75		2226.13		0.01	0.02	2226.16	
AP1002	M				47.35		2.0817		4.095				156222.76
		1.133	0.40	-0.28		5088.12		4996.95		0.06	0.03	4997.04	
64094	M				47.39		2.0822		4.099				161219.80
		1.003	0.06	1.84		2785.67		2735.75		0.05	0.03	2735.83	
74004	M				47.42		2.0819		4.102				163955.63
		2.103	-0.39	2.12		-7710.67		-7572.51		0.16	0.06	-7572.29	
648	K				47.49		2.0839		4.113				156383.34
		2.008	-0.88	3.54		-20448.73		-20082.43		0.15	0.06	-20082.22	
649	K				47.55		2.0895		4.123				136301.11
		2.119	-0.66	2.31		-15931.70		-15646.40		0.16	0.06	-15646.18	
650	K				47.62		2.0948		4.135				120654.93
		1.048	-0.13	0.15		-4182.59		-4107.71		-0.09	0.03	-4107.77	
651	K				47.64		2.0965		4.128				116547.15
		0.800	-0.04	0.90		-4708.86		-4624.55		-0.10	0.02	-4624.63	
652	K				47.64		2.0977		4.122				111922.52
		1.399	-1.52	1.12		-14391.58		-14133.97		0.06	0.04	-14133.87	
653	K				47.68		2.1029		4.126				97788.65
		1.686	-0.40	-0.26		-12257.62		-12038.25		0.18	0.05	-12038.02	
64091	K				47.73		2.1038		4.138				85750.64
		1.427	0.19	0.29		6265.79		6153.65		0.27	0.04	6153.96	
655	M				47.77		2.1021		4.156				91904.60
		1.177	0.00	1.80		1076.05		1056.79		0.21	0.03	1057.03	
656	K				47.81		2.1033		4.171				92961.63
		1.280	0.00	0.95		-553.09		-543.20		0.10	0.04	-543.06	
657	K				47.85		2.1052		4.178				92418.56
		1.365	0.37	-1.08		5522.04		5423.23		-0.19	0.04	5423.08	
658	K				47.85		2.1044		4.165				97841.63
		0.636	-0.06	-0.28		-1272.98		-1250.20		0.01	0.02	-1250.17	
70005	M				47.87		2.1045		4.166				96591.46
		0.223	0.03	0.44		1448.72		1422.79		0.00	0.01	1422.80	
85203	K				47.87		2.1043		4.166				98014.26
		0.025	-0.01	-0.33		-463.52		-455.23		0.00	0.00	-455.23	
85204	K				47.87		2.1044		4.166				97559.03
		40.579	-2.59	34.18		-47285.43		-46438.71		0.16	1.15	-46437.40	

1	2	3	4	5	6	7	8	9	10	11	12	13	14
						41 D KUOPIO-TOIVALA 1985.66							
85204	K				47.87		2.1044		4.166				97559.03
		3.003	0.40	4.12		2158.00		2119.38		0.11	0.08	2119.57	
70006	M				47.96		2.1040		4.173				99678.61
		1.156	-0.01	1.73		158.91		156.06		-0.10	0.03	155.99	
662	K				47.98		2.1045		4.167				99834.59
		0.980	-0.47	-0.64		-8483.06		-8331.26		-0.13	0.03	-8331.36	
51000	K				47.98		2.1062		4.158				91503.23
		1.143	0.18	0.90		5473.98		5376.03		-0.14	0.03	5375.92	
46003	K				47.98		2.1062		4.148				96879.15
		2.671	-0.21	-2.04		-9378.10		-9210.30		0.44	0.07	-9209.79	
64092	S				48.06		2.1083		4.178				87669.36
		2.772	-0.03	0.72		-1782.65		-1750.75		0.49	0.08	-1750.18	
85206	M				48.14		2.1092		4.212				85919.18
		2.414	-0.10	-0.11		-514.31		-505.11		0.11	0.07	-504.93	
1837	K				48.22		2.1091		4.220				85414.23
		2.212	0.08	0.39		5690.43		5588.61		0.14	0.06	5588.81	
85205	K				48.29		2.1078		4.230				91003.05
		0.070	0.11	-0.13		4286.24		4209.55		-0.01	0.00	4209.54	
62077	K				48.29		2.1069		4.229				95212.59
		16.421	-0.05	4.94		-2390.57		-2347.81		0.91	0.45	-2346.45	
						42 A TOIVALA-KUUSJÄRVI 1986.73							
62077	K				48.29		2.1069		4.229				95212.59
		3.151	0.15	2.08		16145.32		15856.43		-0.11	0.26	15856.58	
54202	M				48.34		2.1053		4.220				111069.17
		0.346	-0.06	0.14		5063.22		4972.61		-0.04	0.03	4972.60	
60202	M				48.34		2.1045		4.218				116041.77
		1.466	-0.04	0.76		-13464.71		-13223.78		-0.20	0.12	-13223.86	
86112	K				48.34		2.1076		4.202				102817.91
		1.400	-0.32	1.03		-4332.03		-4254.52		-0.26	0.12	-4254.66	
54204	K				48.31		2.1078		4.183				98563.24
		1.570	-0.09	2.35		-17215.96		-16907.96		-0.25	0.13	-16908.08	
2094	K				48.28		2.1110		4.164				81655.17
		1.453	-0.06	2.00		6655.74		6536.67		-0.26	0.12	6536.53	
54205	K				48.24		2.1098		4.145				88191.70
		1.680	-0.04	-1.59		-3184.95		-3127.97		-0.30	0.14	-3128.13	
54206	M				48.20		2.1102		4.122				85063.57
		1.763	-0.10	-0.97		10083.08		9902.69		-0.30	0.15	9902.54	
54207	M				48.16		2.1082		4.099				94966.11
		1.334	-0.15	-0.75		4399.15		4320.44		-0.23	0.11	4320.32	
54209	K				48.15		2.1077		4.082				99286.43
		0.936	-0.08	0.14		-4518.90		-4438.05		-0.16	0.08	-4438.13	
2098	K				48.13		2.1088		4.071				94848.30
		1.560	-0.03	1.27		9770.82		9596.00		-0.20	0.13	9595.93	
54208	K				48.13		2.1073		4.056				104444.23
		1.780	0.38	0.62		25627.23		25168.63		-0.29	0.15	25168.49	
54210	K				48.11		2.1022		4.034				129612.72
		1.988	-0.05	-1.27		-4871.91		-4784.72		-0.24	0.17	-4784.79	
86214	M				48.12		2.1046		4.016				124827.93
		1.724	-0.57	-1.11		-24895.93		-24450.47		-0.27	0.14	-24450.60	
54211	M				48.11		2.1092		3.995				100377.33
		0.994	-0.18	-0.33		-5670.90		-5569.45		-0.17	0.08	-5569.54	
54212	M				48.10		2.1107		3.983				94807.79
		1.746	0.32	-1.53		6974.31		6849.54		-0.33	0.15	6849.36	
2103	M				48.06		2.1112		3.958				101657.15
		1.506	-0.29	1.68		-2244.86		-2204.71		-0.24	0.13	-2204.82	
54213	M				48.05		2.1119		3.940				99452.33
		3.182	-0.44	-2.02		-2874.37		-2822.96		-0.61	0.27	-2823.30	
AP0107	M				47.99		2.1153		3.894				96629.02
		1.236	-0.07	-1.27		-1253.95		-1231.53		-0.23	0.10	-1231.66	
86213	M				47.98		2.1157		3.877				95397.36
		2.178	-0.21	1.65		-7374.30		-7242.42		-0.42	0.18	-7242.66	
54216	M				47.94		2.1167		3.845				88154.71

1	2	3	4	5	6	7	8	9	10	11	12	13	14
54216	M				47.94		2.1167		3.845				88154.71
		1.648	0.05	-1.60		19094.48		18752.97		-0.32	0.14	18752.79	
54217	M				47.91		2.1121		3.821				106907.49
		1.252	-0.23	-1.11		-3385.76		-3325.19		-0.24	0.10	-3325.33	
86212	M				47.89		2.1125		3.803				103582.17
		2.004	0.05	-1.12		302.53		297.12		-0.36	0.17	296.93	
54218	M				47.87		2.1122		3.776				103879.10
		1.260	0.43	1.44		9247.45		9082.02		-0.23	0.11	9081.90	
54219	M				47.85		2.1094		3.759				112960.99
		1.626	0.34	-0.56		21158.78		20780.20		-0.17	0.14	20780.17	
54220	K				47.87		2.1048		3.745				133741.15
		1.314	0.10	-0.38		3971.52		3900.44		-0.22	0.11	3900.33	
2110	M				47.86		2.1033		3.729				137641.48
		2.034	-0.04	1.27		-2914.97		-2862.80		-0.40	0.17	-2863.03	
2111	M				47.83		2.1017		3.699				134778.45
		1.822	-0.82	0.97		-29774.28		-29241.44		-0.32	0.15	-29241.61	
54221	R				47.77		2.1060		3.675				105536.85
		2.564	0.10	2.64		6636.92		6518.15		-0.39	0.21	6517.97	
54223	K				47.67		2.1031		3.645				112054.83
		1.880	-0.03	1.75		5837.59		5733.11		-0.38	0.16	5732.89	
54224	M				47.63		2.1008		3.617				117787.71
		1.316	-0.39	0.00		-14199.74		-13945.59		-0.26	0.11	-13945.74	
54225	M				47.59		2.1022		3.597				103841.97
		1.654	-0.10	1.74		-2484.90		-2440.42		-0.31	0.14	-2440.59	
54226	K				47.55		2.1003		3.574				101401.38
		1.236	0.04	0.77		912.09		895.76		-0.17	0.10	895.69	
86211	K				47.55		2.0994		3.560				102297.07
		1.496	0.96	-0.22		35481.90		34846.62		-0.29	0.13	34846.46	
54228	M				47.53		2.0918		3.539				137143.53
		1.232	0.16	1.60		-5108.28		-5016.81		-0.21	0.10	-5016.92	
54229	M				47.53		2.0910		3.523				132126.61
		1.594	-0.09	-0.29		-2773.09		-2723.42		-0.28	0.13	-2723.57	
86210	K				47.52		2.0884		3.502				129403.05
		0.908	0.10	0.73		6006.31		5898.72		-0.11	0.08	5898.69	
86209	K				47.53		2.0868		3.494				135301.73
		1.434	-0.59	0.92		-19665.59		-19313.36		-0.27	0.12	-19313.51	
54232	M				47.51		2.0903		3.474				115988.23
		1.673	-0.02	0.72		-2893.02		-2841.21		-0.34	0.14	-2841.41	
54233	K				47.48		2.0902		3.448				113146.82
		1.340	-0.15	1.62		-2524.40		-2479.19		-0.17	0.11	-2479.25	
54234	K				47.44		2.0901		3.435				110667.57
		3.114	0.64	-0.52		13734.54		13488.54		-0.60	0.26	13488.20	
54236	M				47.35		2.0871		3.390				124155.77
		2.043	-0.15	1.51		803.70		789.30		-0.42	0.17	789.05	
54237	M				47.30		2.0867		3.358				124944.83
		1.461	-0.02	0.46		1318.59		1294.97		-0.28	0.12	1294.81	
54238	K				47.28		2.0861		3.337				126239.64
		1.573	-0.04	-1.15		1413.24		1387.93		-0.33	0.13	1387.73	
54239	M				47.24		2.0865		3.312				127627.37
		3.524	0.11	-0.73		385.95		379.04		-0.59	0.29	378.74	
86101	K				47.20		2.0863		3.268				128006.11
		1.837	-0.08	-0.35		-4999.58		-4910.03		-0.40	0.15	-4910.28	
86102	K				47.19		2.0877		3.238				123095.84
		1.568	-0.14	-0.98		-6685.30		-6565.56		-0.31	0.13	-6565.74	
72018	K				47.17		2.0887		3.214				116530.11
		79.400	-1.74	12.01		21712.79		21324.35		-13.48	6.63	21317.50	

42 B KUUSJÄRVI-JOENSUU 1986.67

72018	K				47.17		2.0887		3.214				116530.11
		1.221	-0.18	-1.57		-9446.93		-9277.73		-0.18	0.10	-9277.81	
54245	M				47.17		2.0906		3.201				107252.29
		2.755	-0.36	-2.87		-8528.98		-8376.24		-0.45	0.23	-8376.46	
54293	M				47.16		2.0929		3.167				98875.83
		1.897	-0.25	-0.47		-11683.41		-11474.20		-0.24	0.16	-11474.28	
86103	M				47.17		2.0945		3.148				87401.55

1	2	3	4	5	6	7	8	9	10	11	12	13	14
86103	M				47.17		2.0945		3.148				87401.55
		2.734	-0.04	-0.50		10294.72		10110.37		-0.47	0.23	10110.13	
54296	M				47.13		2.0908		3.113				97511.68
		1.364	-0.12	-0.83		-3547.90		-3484.36		-0.28	0.11	-3484.53	
86104	P				47.10		2.0912		3.092				94027.15
		4.021	-0.35	0.82		-5283.89		-5189.27		-0.77	0.34	-5189.70	
54299	M				47.03		2.0924		3.034				88837.45
		1.829	-0.12	-0.23		-1350.03		-1325.85		-0.36	0.15	-1326.06	
54401	M				46.99		2.0921		3.007				87511.39
		1.501	0.07	0.68		5580.35		5480.42		-0.28	0.13	5480.27	
86105	M				46.96		2.0902		2.986				92991.66
		1.716	0.10	2.20		-2631.81		-2584.68		-0.32	0.14	-2584.86	
54403	M				46.93		2.0894		2.962				90406.80
		1.884	0.20	1.04		3237.05		3179.07		-0.33	0.16	3178.90	
54404	M				46.91		2.0878		2.938				93585.70
		1.381	-0.30	-1.25		-6749.50		-6628.61		-0.21	0.12	-6628.70	
54405	M				46.90		2.0885		2.922				86956.99
		2.936	0.25	-1.34		4285.34		4208.57		-0.37	0.25	4208.45	
2165A	M				46.91		2.0851		2.894				91165.44
		1.523	0.08	0.93		-1241.94		-1219.69		-0.26	0.13	-1219.82	
54407	M				46.89		2.0849		2.875				89945.62
		2.646	-0.06	3.69		177.26		174.08		-0.46	0.22	173.84	
2167	M				46.86		2.0827		2.840				90119.45
		2.643	-0.01	-2.78		49.21		48.33		-0.35	0.22	48.20	
2168A	M				46.84		2.0813		2.814				90167.65
		2.054	0.09	-2.36		11366.91		11163.22		-0.30	0.17	11163.09	
54409	M				46.83		2.0796		2.791				101330.74
		2.319	-0.36	0.51		-12469.79		-12246.33		-0.38	0.19	-12246.52	
86106	S				46.81		2.0805		2.763				89084.24
		2.658	0.06	-0.20		1381.74		1356.98		-0.10	0.22	1357.10	
54412	K				46.85		2.0802		2.756				90441.33
		3.623	-0.03	1.86		-804.08		-789.67		-0.10	0.30	-789.47	
86110	S				46.91		2.0839		2.748				89651.86
		1.943	0.40	0.44		24263.33		23828.57		0.34	0.16	23829.07	
2170A	K				46.96		2.0788		2.773				113480.93
		1.399	-0.03	-0.53		-4339.15		-4261.39		-0.08	0.12	-4261.35	
86107	M				46.98		2.0802		2.767				109219.57
		1.920	-0.13	1.36		-12300.59		-12080.19		-0.28	0.16	-12080.31	
54415	M				46.96		2.0841		2.746				97139.26
		1.379	-0.25	0.27		-19611.65		-19260.35		-0.25	0.12	-19260.48	
2171	K				46.92		2.0885		2.727				77878.79
		1.775	0.03	1.18		5725.35		5622.79		-0.30	0.15	5622.64	
54416	M				46.88		2.0873		2.705				83501.42
		1.993	-0.24	-1.47		-2461.66		-2417.57		-0.32	0.17	-2417.72	
54417	R				46.85		2.0874		2.681				81083.70
		2.902	-0.08	-1.65		3132.98		3076.86		-0.42	0.24	3076.68	
86111	K				46.80		2.0852		2.649				84160.37
		0.037	0.00	0.30		22.50		22.10		0.01	0.00	22.11	
54304	K				46.80		2.0852		2.650				84182.49
		56.053	-1.63	-2.77		-32934.58		-32344.79		-7.51	4.69	-32347.61	

43 A TOHMAJÄRVI-ONKAMO 1986.48

86205	K				45.25		2.0592		2.040				123125.61
		1.756	-0.42	-1.19		2283.51		2242.54		0.25	-0.08	2242.71	
86206	K				45.30		2.0595		2.059				125368.33
		2.272	-0.76	1.41		-31839.25		-31268.15		0.31	-0.10	-31267.94	
86207	K				45.34		2.0663		2.082				94100.39
		3.148	0.21	-0.13		6294.99		6182.09		0.48	-0.14	6182.43	
86208	K				45.43		2.0646		2.117				100282.83
		1.230	-0.11	2.22		-594.33		-583.67		0.17	-0.05	-583.55	
85211	K				45.47		2.0658		2.130				99699.27
		8.406	-1.08	2.31		-23855.08		-23427.18		1.21	-0.37	-23426.34	

1	2	3	4	5	6	7	8	9	10	11	12	13	14
						43 B ONKAMO-JOENSUU 1985.71							
85211	K				45.47		2.0658		2.130				99699.27
		0.080	0.01	-0.37		1196.37		1174.92		-0.01	0.00	1174.91	
85210	K				45.46		2.0655		2.129				100874.19
		2.574	-0.17	3.02		8768.55		8611.30		0.41	-0.11	8611.60	
868	R				45.52		2.0663		2.158				109485.79
		1.614	0.67	1.67		9978.55		9799.59		0.24	-0.07	9799.76	
869	M				45.55		2.0630		2.175				119285.54
		1.916	-1.43	1.83		-12077.13		-11860.52		0.28	-0.08	-11860.32	
VRKP623	M				45.61		2.0653		2.195				107425.22
		2.004	-0.69	-0.61		-14244.58		-13989.14		0.30	-0.09	-13988.93	
871	R				45.68		2.0693		2.216				93436.29
		2.406	-1.45	1.90		-846.76		-831.58		0.36	-0.10	-831.32	
64093	K				45.76		2.0705		2.241				92604.97
		2.158	-0.31	0.67		-12624.02		-12397.70		0.36	-0.09	-12397.43	
AP0204	M				45.82		2.0744		2.267				80207.54
		2.438	0.37	-0.89		3561.31		3497.47		0.41	-0.10	3497.78	
AP0108	S				45.89		2.0740		2.296				83705.32
		2.906	-0.21	-1.26		-2549.11		-2503.42		0.51	-0.13	-2503.04	
85209	S				45.97		2.0733		2.332				81202.28
		0.943	0.23	-0.37		3223.95		3166.16		0.17	-0.04	3166.29	
54424	M				46.00		2.0729		2.344				84368.57
		1.872	0.24	-1.08		1577.50		1549.22		0.34	-0.08	1549.48	
54423	M				46.05		2.0734		2.367				85918.05
		2.160	-0.90	-0.26		-7219.27		-7089.87		0.35	-0.09	-7089.61	
878	M				46.11		2.0756		2.392				78828.44
		1.395	-0.35	-0.14		-2174.53		-2135.55		0.25	-0.06	-2135.36	
879	K				46.15		2.0763		2.410				76693.07
		2.171	0.47	1.63		18950.53		18610.84		0.40	-0.09	18611.15	
880	M				46.22		2.0734		2.438				95304.22
		1.539	0.16	-0.05		4060.58		3987.78		0.27	-0.07	3987.98	
85208	K				46.27		2.0735		2.457				99292.21
		2.060	-0.77	-0.43		-15477.43		-15200.00		0.40	-0.09	-15199.69	
882	K				46.33		2.0776		2.485				84092.51
		2.169	-0.39	1.15		-5676.19		-5574.46		0.39	-0.09	-5574.16	
883	K				46.40		2.0797		2.512				78518.35
		1.289	0.28	-1.47		2960.14		2907.09		0.24	-0.06	2907.27	
54422	M				46.44		2.0802		2.528				81425.63
		1.451	0.09	0.59		458.60		450.38		0.25	-0.06	450.57	
54421	K				46.49		2.0811		2.546				81876.20
		1.495	-0.15	1.53		-3483.91		-3421.48		0.24	-0.06	-3421.30	
885	K				46.55		2.0828		2.562				78454.90
		1.975	-0.04	0.64		-1647.15		-1617.64		0.36	-0.08	-1617.36	
85207	M				46.61		2.0836		2.588				76837.53
		1.662	0.10	0.47		2376.62		2334.04		0.32	-0.07	2334.29	
54419	K				46.66		2.0840		2.610				79171.82
		2.310	0.25	0.38		2714.44		2665.80		0.36	-0.10	2666.06	
54303	K				46.74		2.0845		2.635				81837.88
		1.717	0.15	-0.87		2387.23		2344.46		0.22	-0.07	2344.61	
54304	K				46.80		2.0852		2.650				84182.49
		44.304	-3.84	7.68		-15805.71		-15522.30		7.42	-1.88	-15516.76	
						44 A SÄRKISALMI-KITEE 1985.64							
76004	K				42.54		2.0345		1.845				71187.09
		0.018	0.00	0.01		685.08		672.78		0.00	0.00	672.78	
83208	K				42.54		2.0344		1.845				71859.87
		2.150	0.23	1.21		2933.32		2880.62		0.01	-0.09	2880.54	
54101	M				42.59		2.0340		1.845				74740.40
		1.493	0.71	-1.61		26750.96		26270.28		-0.03	-0.06	26270.19	
85101	M				42.62		2.0285		1.843				101010.59
		1.690	-0.49	-1.44		-5352.11		-5255.93		-0.02	-0.07	-5256.02	
54103	K				42.66		2.0296		1.842				95754.57
		1.168	-1.48	-1.83		-24795.21		-24349.70		0.04	-0.05	-24349.71	
54104	M				42.69		2.0350		1.844				71404.86

1	2	3	4	5	6	7	8	9	10	11	12	13	14
54104	M				42.69		2.0350		1.844				71404.86
		2.570	0.96	1.59		14046.07		13793.73		0.08	-0.11	13793.70	
85102	M				42.76		2.0330		1.850				85198.56
		1.864	-0.41	-0.26		-9564.62		-9392.78		-0.08	-0.08	-9392.94	
54105	K				42.79		2.0345		1.845				75805.62
		1.535	0.23	0.48		9822.98		9646.49		-0.05	0.75	9647.19	
54106	M				42.82		2.0318		1.841				85452.79
		1.368	0.12	-1.19		9529.90		9358.66		0.14	0.66	9359.46	
85103	K				42.86		2.0309		1.851				94812.27
		2.528	-1.40	1.07		-15633.83		-15352.94		0.08	1.23	-15351.63	
54108	M				42.94		2.0344		1.856				79460.64
		1.444	1.11	-0.59		26359.67		25886.04		0.08	0.70	25886.82	
54109	M				42.99		2.0301		1.862				105347.46
		1.094	-0.12	0.78		-5346.72		-5250.65		0.12	0.53	-5250.00	
54110	K				43.03		2.0319		1.870				100097.46
		1.948	-0.59	0.79		-4518.05		-4436.88		0.25	-0.08	-4436.71	
54111	K				43.10		2.0340		1.887				95660.74
		4.182	0.47	-4.78		2105.42		2067.60		0.39	-0.18	2067.81	
671302	P				43.24		2.0377		1.915				97728.55
		3.204	0.15	-1.36		3686.08		3619.87		0.04	-0.14	3619.77	
54114	M				43.33		2.0381		1.917				101348.33
		2.696	-0.21	-1.64		-4273.00		-4196.25		-0.06	-0.12	-4196.43	
54115	M				43.37		2.0388		1.913				97151.90
		1.857	0.04	0.36		1659.58		1629.78		0.23	-0.08	1629.93	
671304	P				43.43		2.0398		1.929				98781.83
		1.598	-0.25	0.49		-15526.56		-15247.73		0.17	-0.07	-15247.63	
671305	M				43.49		2.0438		1.941				83534.20
		2.505	-0.34	-2.41		-5802.70		-5698.51		0.20	-0.11	-5698.42	
54118	M				43.56		2.0443		1.955				77835.79
		2.058	-0.05	0.37		925.30		908.68		0.19	-0.09	908.78	
54119	K				43.63		2.0448		1.968				78744.58
		2.002	0.11	-1.03		12151.52		11933.32		0.04	-0.09	11933.27	
85104	M				43.68		2.0433		1.971				90677.85
		2.427	0.48	-0.80		10698.27		10506.16		-0.05	-0.10	10506.01	
54121	M				43.73		2.0412		1.967				101183.85
		2.523	0.04	0.22		-15053.33		-14783.02		-0.01	-0.11	-14783.14	
85105	M				43.79		2.0440		1.967				86400.71
		2.438	0.87	1.96		16288.01		15995.53		0.13	-0.10	15995.56	
54125	M				43.87		2.0417		1.976				102396.26
		1.636	0.38	-0.02		12992.72		12759.38		0.11	-0.07	12759.42	
54126	M				43.93		2.0396		1.984				115155.68
		2.156	-0.60	0.44		-9044.55		-8882.12		0.06	-0.09	-8882.15	
54127	M				43.99		2.0417		1.988				106273.53
		2.470	-0.60	-1.27		-18315.77		-17986.87		-0.01	-0.11	-17986.99	
85106	P				44.06		2.0449		1.987				88286.53
		1.831	-0.02	-0.24		-824.27		-809.47		0.11	-0.08	-809.44	
671308	M				44.12		2.0455		1.995				87477.10
		2.508	0.01	1.98		19009.62		18668.29		0.16	-0.11	18668.34	
671309	M				44.21		2.0421		2.006				106145.44
		1.456	-0.25	0.88		-4505.29		-4424.39		0.15	-0.06	-4424.30	
54130	M				44.26		2.0431		2.016				101721.13
		2.017	-0.07	0.45		3743.18		3675.96		0.13	-0.09	3676.00	
85107	M				44.33		2.0422		2.025				105397.14
		1.552	-0.30	0.77		-18530.24		-18197.52		0.10	-0.07	-18197.49	
85108	S				44.38		2.0463		2.032				87199.65
		0.744	0.19	0.35		17433.74		17120.72		0.07	-0.03	17120.76	
54134	M				44.41		2.0436		2.037				104320.40
		0.486	0.19	-0.74		3749.25		3681.93		0.03	-0.02	3681.94	
54135	M				44.43		2.0434		2.040				108002.34
		0.796	0.10	-0.47		3829.80		3761.03		0.08	-0.03	3761.08	
3716	M				44.46		2.0437		2.045				111763.41
		1.974	-0.25	-1.30		-10410.78		-10223.87		0.04	-0.08	-10223.91	
85109	P				44.52		2.0489		2.048				101539.51
		1.982	-0.29	-1.68		-16862.18		-16559.53		0.01	-0.09	-16559.61	
85110	P				44.58		2.0535		2.048				84979.90
		2.612	-0.05	-0.95		-4772.23		-4686.59		-0.13	-0.11	-4686.83	
54138	S				44.61		2.0561		2.039				80293.07

1	2	3	4	5	6	7	8	9	10	11	12	13	14
54138	S				44.61		2.0561		2.039				80293.07
		3.342	0.30	-0.94		6127.60		6017.66		-0.30	-0.14	6017.22	
54140	K				44.64		2.0552		2.018				86310.28
		75.922	-1.08	-12.35		15396.65		15119.74		2.50	0.96	15123.20	

44 B KITEE-TOHMAJÄRVI 1986.40

54140	K				44.64		2.0552		2.018				86310.28
		0.060	0.02	-0.20		1432.87		1407.15		-0.01	0.00	1407.14	
85111	K				44.64		2.0550		2.018				87717.41
		1.776	0.08	1.57		1857.20		1823.88		-0.16	-0.08	1823.64	
54141	M				44.64		2.0548		2.006				89541.06
		2.911	0.38	0.47		9484.11		9313.90		-0.32	-0.13	9313.45	
54142	M				44.63		2.0528		1.982				98854.51
		1.466	0.03	0.44		1692.13		1661.76		0.06	-0.06	1661.76	
54143	K				44.67		2.0532		1.986				100516.27
		1.658	-0.29	-1.68		-2049.69		-2012.91		0.22	-0.07	-2012.76	
54144	M				44.72		2.0539		2.002				98503.51
		2.152	0.10	0.70		6556.83		6439.17		0.29	-0.09	6439.37	
86201	M				44.78		2.0534		2.024				104942.87
		1.500	-0.53	0.56		-25242.18		-24789.24		0.10	-0.06	-24789.20	
86202	S				44.83		2.0589		2.031				80153.67
		1.920	0.90	-1.58		20629.43		20259.28		-0.08	-0.08	20259.12	
54146	M				44.87		2.0551		2.025				100412.78
		1.584	0.98	1.20		26985.81		26501.49		0.04	-0.07	26501.46	
54147	M				44.92		2.0504		2.028				126914.24
		1.376	-0.72	-0.22		-24412.90		-23974.77		0.01	-0.06	-23974.82	
54148	M				44.95		2.0559		2.029				102939.43
		1.886	0.31	-0.72		6871.33		6748.03		-0.04	-0.08	6747.91	
54149	K				44.99		2.0554		2.026				109687.34
		0.994	-0.82	-0.63		-22460.72		-22057.74		0.00	-0.04	-22057.78	
54150	K				45.01		2.0607		2.026				87629.56
		1.844	0.25	0.41		5763.95		5660.55		-0.07	-0.08	5660.40	
54151	M				45.03		2.0609		2.021				93289.96
		1.664	0.42	-1.86		-5112.58		-5020.87		0.00	-0.07	-5020.94	
54152	S				45.07		2.0636		2.021				88269.02
		1.626	1.15	0.75		29602.43		29071.41		-0.05	-0.07	29071.29	
86203	K				45.10		2.0587		2.018				117340.30
		1.074	-1.12	-0.73		-28734.25		-28218.81		-0.03	-0.05	-28218.89	
54154	K				45.11		2.0647		2.016				89121.41
		1.442	0.75	0.69		13945.02		13694.89		0.06	-0.06	13694.89	
86204	K				45.15		2.0618		2.020				102816.30
		1.484	0.25	0.14		1769.51		1737.77		0.04	-0.06	1737.75	
54156	M				45.19		2.0619		2.023				104554.04
		2.286	0.36	3.27		18910.69		18571.44		0.23	-0.10	18571.57	
86205	K				45.25		2.0592		2.040				123125.61
		30.703	2.50	2.58		37489.00		36816.37		0.29	-1.31	36815.35	

44 X TOHMAJÄRVEN PIIKKI 1986.45

54156	M				45.19		2.0619		2.023				104554.04
		1.690	0.11	-1.75		5748.83		5645.71		-0.06	0.00	5645.65	
54157	M				45.22		2.0612		2.019				110199.68
		1.776	0.08	-1.39		-23893.22		-23464.68		0.06	0.00	-23464.62	
54158	P				45.27		2.0675		2.023				86735.06
		2.894	0.51	-0.94		6052.79		5944.25		0.42	0.00	5944.67	
865	R				45.34		2.0665		2.055				92679.73
		6.360	0.70	-4.08		-12091.61		-11874.73		0.42	0.00	-11874.31	

45 A IISALMI-PYÖREE 1991.63

46008	K				50.71		2.1521		5.006				94425.81
		1.426	-0.14	0.41		6058.90		5950.76		0.10	-0.07	5950.79	
91211	K				50.76		2.1527		5.018				100376.60

1	2	3	4	5	6	7	8	9	10	11	12	13	14
91211	K				50.76		2.1527		5.018				100376.60
		2.951	0.28	0.94		-3190.26		-3133.32		-0.04	-0.14	-3133.50	
1876	K				50.81		2.1541		5.013				97243.10
		2.217	-0.06	0.37		6299.52		6187.10		0.12	-0.11	6187.11	
91212	K				50.83		2.1529		5.028				103430.20
		1.413	-0.16	-0.18		-4549.63		-4468.43		0.06	-0.07	-4468.44	
91318	K				50.88		2.1542		5.035				98961.77
		1.767	0.14	1.56		-1863.66		-1830.41		0.08	-0.08	-1830.41	
68004	K				50.94		2.1542		5.044				97131.35
		1.241	-0.47	-1.39		-6197.71		-6087.11		0.09	-0.06	-6087.08	
91213	M				50.98		2.1535		5.055				91044.27
		1.589	1.18	-1.25		8848.11		8690.19		0.13	-0.08	8690.24	
68023	K				51.03		2.1505		5.071				99734.52
		2.362	0.06	-0.71		721.67		708.79		0.04	-0.11	708.72	
1880	K				51.11		2.1474		5.075				100443.23
		2.550	1.54	-1.86		15867.96		15584.67		0.12	-0.12	15584.67	
66008	K				51.20		2.1465		5.089				116027.89
		0.825	0.66	0.06		8702.01		8546.64		0.04	-0.04	8546.64	
65099	K				51.22		2.1451		5.094				124574.54
		1.656	0.44	-1.18		5960.26		5853.84		0.08	-0.08	5853.84	
60018	P				51.28		2.1443		5.103				130428.38
		1.574	-0.18	-1.88		-13650.16		-13406.46		0.09	-0.08	-13406.45	
68024	K				51.34		2.1488		5.113				117021.94
		2.161	0.34	-0.21		2690.44		2642.41		0.01	-0.10	2642.32	
68025	K				51.40		2.1499		5.115				119664.25
		23.732	3.63	-5.32		25697.45		25238.67		0.92	-1.14	25238.45	

45 B PYÖREE-JORMUA 1991.71

68025	K				51.40		2.1499		5.115				119664.25
		1.695	-0.15	-1.81		-1492.25		-1465.61		-0.02	-0.08	-1465.71	
1885	K				51.44		2.1514		5.113				118198.54
		2.125	0.43	-2.32		2587.70		2541.51		-0.03	-0.10	2541.38	
68026	M				51.49		2.1509		5.109				120739.92
		2.334	0.54	-0.31		24603.24		24164.03		0.02	-0.11	24163.94	
91214	R				51.56		2.1459		5.111				144903.86
		3.007	0.39	-1.98		13334.89		13096.82		0.04	-0.14	13096.72	
68005	K				51.66		2.1460		5.117				158000.56
		1.761	-0.83	-1.32		-11625.75		-11418.20		0.07	-0.08	-11418.21	
65098	K				51.72		2.1497		5.125				146582.35
		1.874	-0.97	-1.02		-10805.04		-10612.19		0.05	-0.09	-10612.23	
1890	M				51.78		2.1532		5.130				135970.12
		2.495	-0.38	-1.83		-2805.04		-2754.99		0.03	-0.12	-2755.08	
1891	K				51.86		2.1558		5.134				133215.04
		0.008	-0.01	0.25		-314.21		-308.60		0.00	0.00	-308.60	
68027	K				51.86		2.1558		5.134				132906.44
		1.338	-0.43	0.86		-5677.04		-5575.74		0.02	-0.06	-5575.78	
1892	S				51.90		2.1575		5.136				127330.65
		2.024	0.18	1.78		3293.59		3234.83		0.06	-0.10	3234.79	
91215	S				51.97		2.1575		5.143				130565.45
		2.240	0.33	-2.23		14922.33		14656.06		0.09	-0.11	14656.04	
1894	K				52.05		2.1558		5.154				145221.49
		0.261	-0.15	0.31		3302.34		3243.41		0.01	-0.01	3243.41	
68028	K				52.06		2.1554		5.155				148464.90
		0.016	0.00	-0.12		-178.74		-175.55		0.00	0.00	-175.55	
65097	K				52.06		2.1554		5.155				148289.34
		1.802	0.31	-1.08		2351.39		2309.44		0.06	-0.09	2309.41	
91216	M				52.12		2.1568		5.162				150598.76
		1.812	0.29	-0.72		1798.56		1766.47		0.05	-0.09	1766.43	
68029	M				52.18		2.1572		5.168				152365.19
		2.760	0.32	0.10		6350.61		6237.29		0.09	-0.13	6237.25	
91221	M				52.28		2.1564		5.179				158602.44
		2.428	0.49	-1.53		12232.38		12014.10		0.07	-0.12	12014.05	
91217	R				52.36		2.1543		5.189				170616.49
		1.079	0.07	-0.84		1576.54		1548.40		0.02	-0.05	1548.37	
91218	K				52.40		2.1546		5.191				172164.86

1	2	3	4	5	6	7	8	9	10	11	12	13	14
91218	K				52.40		2.1546		5.191				172164.86
		4.741	1.46	0.42		12708.32		12481.53		0.06	-0.23	12481.36	
91219	M				52.55		2.1535		5.198				184646.23
		2.936	0.45	-1.43		-13611.38		-13368.49		-0.03	-0.14	-13368.66	
91220	M				52.64		2.1567		5.195				171277.56
		1.710	-0.78	-1.71		-18441.06		-18112.05		0.01	-0.08	-18112.12	
91222	M				52.69		2.1612		5.196				153165.44
		2.532	0.28	1.54		14922.61		14656.40		0.02	-0.12	14656.30	
1904	K				52.77		2.1599		5.198				167821.74
		0.622	0.21	1.20		3950.29		3879.82		0.00	-0.03	3879.79	
91223	K				52.79		2.1595		5.197				171701.53
		1.482	-0.76	1.83		-16279.03		-15988.64		0.02	-0.07	-15988.69	
48102	M				52.84		2.1631		5.200				155712.84
		1.949	-0.28	0.91		-3140.99		-3084.96		0.05	-0.09	-3085.00	
79005	M				52.91		2.1632		5.206				152627.83
		2.214	0.80	1.00		16749.28		16450.51		0.03	-0.11	16450.43	
1907	K				52.98		2.1596		5.210				169078.27
		2.058	0.77	-0.97		8723.01		8567.39		0.04	-0.10	8567.33	
1908	M				53.05		2.1590		5.215				177645.60
		0.020	0.00	0.28		39.76		39.05		0.00	0.00	39.05	
48103	K				53.05		2.1591		5.215				177684.65
		1.682	0.27	0.70		4452.54		4373.10		0.02	-0.08	4373.04	
48104	M				53.11		2.1590		5.217				182057.69
		2.077	-0.05	0.02		-5200.23		-5107.46		0.01	-0.10	-5107.55	
1910	K				53.17		2.1609		5.218				176950.14
		2.446	-1.88	-1.62		-26587.77		-26113.56		0.06	-0.12	-26113.62	
48105	M				53.25		2.1676		5.225				150836.52
		2.168	-0.15	1.12		-8842.79		-8685.11		0.06	-0.10	-8685.15	
84005	K				53.33		2.1705		5.232				142151.37
		1.285	-0.08	1.05		-1279.26		-1256.46		-0.09	-0.06	-1256.61	
91224	K				53.33		2.1715		5.221				140894.76
		1.191	0.29	0.26		6364.44		6250.96		-0.09	0.29	6251.16	
91225	K				53.33		2.1703		5.211				147145.92
		1.527	-0.14	0.45		-4163.62		-4089.39		-0.07	-0.07	-4089.53	
91226	S				53.36		2.1717		5.202				143056.39
		0.162	0.01	-0.02		596.32		585.70		0.00	-0.01	585.69	
91227	K				53.37		2.1718		5.202				143642.07
		1.910	-0.16	1.92		6622.76		6504.69		-0.04	-0.09	6504.56	
48110	K				53.41		2.1723		5.198				150146.63
		0.769	-0.11	0.68		4042.14		3970.08		0.01	-0.04	3970.05	
91228	K				53.43		2.1721		5.199				154116.68
		2.675	-0.13	-0.35		-4397.23		-4318.84		0.01	-0.13	-4318.96	
72002	K				53.47		2.1742		5.200				149797.72
		2.917	-0.85	1.54		3887.28		3817.99		-0.09	-0.14	3817.76	
91328	P				53.53		2.1760		5.190				153615.49
		1.288	0.24	0.67		-6641.39		-6523.02		-0.05	-0.06	-6523.13	
91327	S				53.56		2.1787		5.183				147092.35
		0.968	-0.33	0.96		7302.43		7172.30		-0.05	-0.05	7172.20	
91326	K				53.57		2.1790		5.178				154264.55
		1.429	0.44	0.48		-9283.54		-9118.12		-0.07	-0.07	-9118.26	
91325	K				53.59		2.1824		5.169				145146.29
		0.009	-0.04	0.09		-1816.68		-1784.31		0.00	0.00	-1784.31	
48114	K				53.59		2.1827		5.169				143361.98
		75.826	-0.09	-2.79		24131.71		23700.58		0.45	-3.28	23697.75	

45 C JORMUA-KONTIOMÄKI 1991.83

48114	K				53.59		2.1827		5.169				143361.98
		1.650	-0.11	1.90		-3765.42		-3698.33		-0.09	-0.08	-3698.50	
48115	K				53.61		2.1847		5.158				139663.48
		1.995	-0.24	-0.36		-12694.93		-12468.79		-0.10	-0.10	-12468.99	
65094	S				53.64		2.1892		5.146				127194.50
		0.432	0.11	-0.28		3822.97		3754.88		-0.02	-0.02	3754.84	
91324	K				53.65		2.1885		5.144				130949.35
		1.217	0.19	0.97		7620.54		7484.80		-0.06	-0.06	7484.68	
3131	M				53.66		2.1870		5.137				138434.03

1	2	3	4	5	6	7	8	9	10	11	12	13	14
3131	M				53.66		2.1870		5.137				138434.03
		1.974	0.31	0.71		8483.94		8332.81		-0.10	-0.09	8332.62	
91323	M				53.69		2.1848		5.124				146766.64
		1.371	0.75	3.05		13056.49		12823.87		-0.07	-0.07	12823.73	
91322	K				53.70		2.1819		5.115				159590.38
		1.574	0.01	4.61		19172.75		18831.08		-0.08	-0.08	18830.92	
91321	M				53.72		2.1767		5.105				178421.30
		1.637	-0.16	1.13		-4039.03		-3967.04		0.03	-0.08	-3967.09	
3129	R				53.77		2.1783		5.109				174454.22
		1.828	-0.28	-0.83		-3602.97		-3538.76		0.14	-0.53	-3539.15	
86004	K				53.82		2.1795		5.127				170915.06
		0.308	0.06	0.24		469.76		461.38		0.02	-0.01	461.39	
91320	K				53.83		2.1796		5.130				171376.46
		0.029	-0.01	-0.01		-354.76		-348.44		0.00	0.00	-348.44	
48117	K				53.83		2.1797		5.130				171028.02
		14.015	0.63	11.13		28169.35		27667.48		-0.33	-1.12	27666.03	

45 X KAJAANI 1996.66

91224	K				53.33		2.1715		5.221				140894.76
		1.812	-0.29	1.26		-16039.66		-15753.73		0.02	-0.52	-15754.23	
1914	M				53.37		2.1755		5.226				125140.53
		1.959	0.27	2.61		22405.42		22006.00		-0.05	-0.56	22005.39	
91225	K				53.33		2.1703		5.211				147145.92
		3.771	-0.02	3.87		6365.76		6252.27		-0.03	-1.08	6251.16	

46.1 A JOENSUU-KELVÄ 1992.42

54304	K				46.80		2.0852		2.650				84182.49
		1.955	0.07	-0.31		-1056.05		-1037.13		0.10	0.08	-1036.95	
54302	M				46.86		2.0873		2.662				83145.55
		2.236	-0.14	2.61		15084.20		14814.00		0.11	0.09	14814.20	
92201	M				46.94		2.0866		2.676				97959.75
		1.997	-0.04	1.81		-2720.90		-2672.16		0.13	0.08	-2671.95	
54305	M				47.01		2.0872		2.694				95287.79
		1.077	0.06	1.16		-2296.25		-2255.12		0.09	0.04	-2254.99	
54306	M				47.05		2.0875		2.706				93032.80
		1.337	0.34	-1.41		5660.62		5559.24		0.09	0.05	5559.38	
54307	P				47.09		2.0868		2.718				98592.19
		2.642	-0.07	2.00		12035.68		11820.08		0.18	0.11	11820.37	
92202	S				47.18		2.0866		2.741				110412.55
		2.161	0.25	0.46		6881.31		6758.04		0.17	0.09	6758.30	
54309	M				47.26		2.0862		2.763				117170.85
		2.053	-0.90	0.28		-10972.68		-10776.13		0.02	0.08	-10776.03	
3484	R				47.31		2.0884		2.766				106394.82
		2.442	-0.07	1.69		1510.35		1483.30		-0.18	0.10	1483.22	
3483	M				47.29		2.0842		2.742				107878.05
		1.495	-0.33	-0.98		-906.08		-889.85		-0.15	0.06	-889.94	
54311	M				47.26		2.0829		2.723				106988.11
		2.767	-0.12	2.34		5595.49		5495.23		-0.06	0.11	5495.28	
92204	K				47.28		2.0823		2.714				112483.40
		0.338	0.25	0.01		776.64		762.72		0.01	0.01	762.74	
54312	M				47.29		2.0823		2.716				113246.14
		1.398	0.24	-1.47		9931.70		9753.75		0.03	0.06	9753.84	
54313	S				47.33		2.0813		2.720				122999.98
		1.280	-0.77	1.87		-14219.68		-13964.91		-0.01	0.05	-13964.87	
54314	M				47.35		2.0850		2.720				109035.11
		1.713	-0.34	0.15		-17638.23		-17322.28		-0.01	0.07	-17322.22	
54315	M				47.38		2.0893		2.718				91712.89
		3.680	0.59	-2.93		15640.83		15360.70		0.01	0.15	15360.86	
54317	M				47.46		2.0885		2.719				107073.74
		1.652	-0.07	-1.61		3136.78		3080.59		0.16	0.07	3080.82	
54318	M				47.52		2.0888		2.740				110154.56
		0.459	0.10	0.41		2909.97		2857.84		0.01	0.02	2857.87	
92203	K				47.53		2.0884		2.741				113012.43

1	2	3	4	5	6	7	8	9	10	11	12	13	14
92203	K				47.53		2.0884		2.741				113012.43
		1.857	0.43	0.64		-20087.09		-19727.37		0.09	0.08	-19727.20	
54319	M				47.58		2.0953		2.752				93285.23
		1.442	0.93	-1.72		6516.36		6399.69		-0.02	0.06	6399.73	
920	M				47.60		2.0955		2.750				99684.96
		1.378	-0.59	2.28		-5796.26		-5692.49		-0.02	0.06	-5692.45	
54320	M				47.62		2.0974		2.747				93992.50
		1.528	0.22	-2.16		4891.71		4804.15		0.03	0.06	4804.24	
54321	K				47.65		2.0983		2.750				98796.75
		1.641	0.28	-1.68		7552.22		7417.02		0.11	0.07	7417.20	
54322	K				47.71		2.0989		2.765				106213.94
		2.096	-0.13	-1.50		-7139.59		-7011.80		0.17	0.09	-7011.54	
54323	K				47.79		2.1025		2.787				99202.40
		1.957	-0.05	-1.79		3669.00		3603.34		0.18	0.08	3603.60	
54324	M				47.85		2.1035		2.811				102806.01
		1.389	0.16	0.35		3141.54		3085.31		0.11	0.06	3085.48	
92102	K				47.90		2.1035		2.826				105891.48
		1.494	-0.39	1.23		-6179.44		-6068.85		0.11	0.06	-6068.68	
54325	K				47.95		2.1042		2.841				99822.81
		2.009	-0.13	1.11		-3329.14		-3269.55		0.12	0.08	-3269.35	
54326	M				48.02		2.1043		2.857				96553.45
		1.493	0.05	-0.86		659.03		647.25		0.03	0.06	647.34	
54327	M				48.05		2.1044		2.861				97200.79
		1.739	0.27	-1.24		3081.40		3026.26		0.18	0.07	3026.51	
92101	K				48.11		2.1051		2.885				100227.30
		1.465	-0.08	0.36		-3743.79		-3676.80		0.16	0.06	-3676.58	
54329	K				48.15		2.1078		2.906				96550.73
		2.002	0.00	-2.13		735.76		722.60		0.22	0.08	722.90	
54330	K				48.21		2.1096		2.935				97273.63
		1.842	0.04	1.22		1439.44		1413.69		0.20	0.07	1413.96	
54331	M				48.27		2.1098		2.961				98687.58
		1.678	0.09	0.92		1715.75		1685.07		0.18	0.07	1685.32	
54332	M				48.32		2.1103		2.985				100372.90
		1.886	0.17	-0.10		5926.64		5820.62		0.20	0.08	5820.90	
54333	M				48.38		2.1109		3.012				106193.80
		0.722	0.00	0.89		-2515.05		-2470.06		0.08	0.03	-2469.95	
54334	M				48.41		2.1115		3.022				103723.84
		1.746	0.18	1.88		3072.88		3017.91		0.18	0.07	3018.16	
54335	M				48.47		2.1109		3.046				106742.00
		1.471	0.19	1.81		3535.26		3472.02		0.15	0.06	3472.23	
54336	K				48.52		2.1102		3.066				110214.23
		1.673	0.07	1.25		-6634.51		-6515.83		0.15	0.07	-6515.61	
54337	K				48.58		2.1123		3.086				103698.62
		67.190	0.76	6.84		19865.85		19510.08		3.31	2.74	19516.13	

46.1 B KELVÄ-TIENSUU 1992.56

54337	K				48.58		2.1123		3.086				103698.62
		1.585	-0.01	1.07		-3042.00		-2987.59		0.15	0.06	-2987.38	
54338	M				48.64		2.1134		3.106				100711.24
		1.637	0.10	0.02		255.11		250.54		0.17	0.07	250.78	
54339	K				48.69		2.1141		3.128				100962.02
		1.615	0.18	-1.22		769.89		756.12		0.17	0.07	756.36	
54340	K				48.73		2.1147		3.150				101718.37
		1.987	0.82	3.01		17830.71		17511.80		0.20	0.08	17512.08	
54341	K				48.80		2.1139		3.178				119230.44
		1.473	-0.29	0.86		3925.15		3854.94		0.14	0.06	3855.14	
54342	K				48.85		2.1145		3.197				123085.58
		1.632	0.07	-0.70		-20623.18		-20254.38		0.17	0.07	-20254.14	
54343	K				48.90		2.1198		3.219				102831.44
		1.997	-0.17	2.48		-7666.42		-7529.36		0.19	0.08	-7529.09	
54344	M				48.95		2.1227		3.245				95302.36
		1.404	0.08	-0.40		388.51		381.57		0.13	0.06	381.76	
3036	S				49.00		2.1235		3.263				95684.11
		1.562	0.16	0.39		2327.11		2285.51		0.13	0.06	2285.70	
92103	M				49.05		2.1249		3.280				97969.82

1	2	3	4	5	6	7	8	9	10	11	12	13	14
92103	M				49.05		2.1249		3.280				97969.82
		2.072	-0.14	0.27		4300.67		4223.80		0.12	0.08	4224.00	
54345	M				49.12		2.1268		3.296				102193.83
		2.539	-0.28	-1.16		377.12		370.38		0.19	0.10	370.67	
78012	K				49.21		2.1283		3.322				102564.50
		2.372	0.26	2.51		-887.79		-871.93		0.08	0.10	-871.75	
92104	S				49.28		2.1301		3.333				101692.74
		1.654	0.29	0.22		11913.30		11700.40		0.06	0.07	11700.53	
54346	K				49.34		2.1291		3.340				113393.26
		1.163	0.90	-0.36		15151.15		14880.38		0.00	0.05	14880.43	
92105	K				49.36		2.1264		3.341				128273.69
		0.099	-0.10	-0.33		-2495.02		-2450.43		0.00	0.00	-2450.43	
3041	K				49.36		2.1265		3.341				125823.26
		24.791	1.87	6.66		22524.32		22121.74		1.90	1.01	22124.65	

46.1 C TIENSUU-LIEKSA 1992.64

3041	K				49.36		2.1265		3.341				125823.26
		2.390	-0.09	-0.41		-2345.01		-2303.10		0.00	0.10	-2303.00	
3042	K				49.40		2.1269		3.340				123520.26
		2.132	-0.54	-1.90		-3518.31		-3455.43		0.17	0.09	-3455.17	
3043	K				49.47		2.1289		3.363				120065.09
		2.587	-0.73	1.94		-19478.35		-19130.32		0.24	0.11	-19129.97	
92118	R				49.55		2.1354		3.396				100935.11
		1.696	-0.13	-1.43		-1711.75		-1681.17		0.16	0.07	-1680.94	
92119	R				49.60		2.1366		3.418				99254.17
		2.524	-0.11	1.23		-3790.56		-3722.86		0.24	0.10	-3722.52	
92120	S				49.67		2.1392		3.450				95531.66
		1.817	0.09	-0.97		1672.37		1642.50		0.15	0.07	1642.72	
92107	K				49.71		2.1395		3.471				97174.39
		13.146	-1.51	-1.54		-29171.61		-28650.38		0.96	0.54	-28648.88	

46.2 A LIEKSA-VALTIMO 1992.70

92107	K				49.71		2.1395		3.471				97174.39
		2.054	0.23	0.68		2808.50		2758.34		0.15	0.03	2758.52	
92121	K				49.74		2.1380		3.492				99932.90
		1.705	-0.17	-0.66		-4996.96		-4907.70		0.15	0.03	-4907.52	
54349	M				49.77		2.1381		3.513				95025.38
		1.284	-0.01	-1.18		3232.10		3174.36		0.11	0.02	3174.49	
92122	M				49.80		2.1361		3.528				98199.86
		2.139	-0.04	0.20		1478.67		1452.25		0.19	0.03	1452.47	
92123	S				49.84		2.1360		3.554				99652.33
		2.243	-0.23	1.75		-2896.74		-2845.00		0.19	0.03	-2844.78	
3050	M				49.88		2.1373		3.580				96807.56
		1.785	0.76	0.01		14107.39		13855.37		0.08	0.03	13855.48	
3051	K				49.88		2.1339		3.591				110663.04
		2.183	-0.83	-1.34		-10796.27		-10603.39		0.12	0.03	-10603.24	
83003	K				49.88		2.1353		3.607				100059.80
		1.741	-0.06	-0.55		2274.95		2234.31		0.09	0.03	2234.43	
54350	K				49.87		2.1345		3.619				102294.22
		2.338	0.78	1.16		5279.80		5185.48		0.18	0.04	5185.70	
3053	M				49.91		2.1344		3.644				107479.92
		1.980	-0.69	0.92		-4949.40		-4860.98		0.17	0.03	-4860.78	
3054	M				49.98		2.1366		3.668				102619.14
		2.154	-0.34	-0.28		-3056.87		-3002.27		0.19	0.03	-3002.05	
54351	K				50.05		2.1391		3.695				99617.09
		2.015	0.35	0.35		3798.86		3731.01		0.15	0.03	3731.19	
76002	K				50.07		2.1390		3.715				103348.28
		2.144	1.16	-0.19		14893.36		14627.34		0.20	0.03	14627.57	
92124	M				50.13		2.1378		3.742				117975.85
		1.625	-0.31	-1.32		-7384.28		-7252.39		0.14	0.02	-7252.23	
3058	M				50.18		2.1401		3.762				110723.63
		1.218	0.64	0.45		13270.82		13033.79		0.10	0.02	13033.91	
92126	K				50.21		2.1379		3.776				123757.54

1	2	3	4	5	6	7	8	9	10	11	12	13	14
92126	K				50.21		2.1379		3.776				123757.54
		1.121	0.29	0.81		7742.15		7603.85		0.08	0.02	7603.95	
82001	K				50.22		2.1364		3.787				131361.48
		1.870	-0.11	-1.52		-6028.13		-5920.45		0.06	0.03	-5920.36	
54352	K				50.21		2.1368		3.795				125441.11
		2.106	-2.23	0.01		-21286.36		-20906.12		0.10	0.03	-20905.99	
3061	M				50.19		2.1372		3.809				104535.12
		1.574	0.18	0.59		1714.37		1683.75		0.13	0.02	1683.90	
92125	K				50.22		2.1365		3.827				106219.03
		1.543	0.36	0.86		8751.35		8595.02		0.14	0.02	8595.18	
54354	P				50.26		2.1348		3.847				114814.20
		1.485	0.20	0.15		8031.93		7888.43		0.14	0.02	7888.59	
92339	K				50.30		2.1340		3.866				122702.79
		0.006	-0.03	0.02		-1327.27		-1303.56		0.00	0.00	-1303.56	
3063	K				50.30		2.1343		3.866				121399.23
		1.291	0.10	-0.69		4342.07		4264.50		0.12	0.02	4264.64	
3064	K				50.33		2.1339		3.883				125663.88
		0.572	-0.12	0.03		-1204.79		-1183.26		0.05	0.01	-1183.20	
92338	K				50.34		2.1344		3.890				124480.68
		1.391	-1.10	-0.70		-12906.05		-12675.50		0.13	0.02	-12675.35	
54355	K				50.37		2.1375		3.907				111805.33
		2.020	-0.41	-1.22		-13936.77		-13687.86		0.18	0.03	-13687.65	
3066	K				50.41		2.1425		3.932				98117.68
		0.033	0.03	0.00		1306.86		1283.52		0.00	0.00	1283.52	
92337	K				50.41		2.1423		3.933				99401.20
		1.390	0.03	1.80		1034.01		1015.55		0.13	0.02	1015.70	
92336	K				50.44		2.1437		3.951				100416.90
		0.768	-0.07	-0.31		-1761.18		-1729.74		0.07	0.01	-1729.66	
54356	M				50.46		2.1443		3.960				98687.24
		0.956	0.16	0.01		4950.66		4862.26		0.09	0.01	4862.36	
92335	K				50.49		2.1432		3.972				103549.61
		1.772	-0.02	0.49		-261.93		-257.25		0.15	0.03	-257.07	
92334	M				50.51		2.1430		3.993				103292.53
		1.129	0.53	-0.41		5320.24		5225.24		0.10	0.02	5225.36	
3069	M				50.53		2.1423		4.006				108517.89
		1.906	-0.20	0.03		-6438.13		-6323.16		0.17	0.03	-6322.96	
3070	K				50.58		2.1443		4.030				102194.93
		2.191	0.02	0.17		-1087.85		-1068.43		0.16	0.03	-1068.24	
3071	K				50.59		2.1454		4.052				101126.69
		1.533	-0.14	2.07		-4507.36		-4426.88		0.12	0.02	-4426.74	
3072	S				50.60		2.1465		4.068				96699.95
		1.119	0.06	0.47		1030.30		1011.91		0.09	0.02	1012.02	
3073	S				50.61		2.1456		4.081				97711.97
		1.210	-0.25	1.44		-3821.33		-3753.11		0.11	0.02	-3752.98	
54359	M				50.65		2.1465		4.096				93958.99
		1.135	0.35	0.80		10420.98		10234.91		0.10	0.02	10235.03	
3075	P				50.67		2.1437		4.110				104194.02
		0.481	0.05	0.33		1188.73		1167.51		0.05	0.01	1167.57	
92333	S				50.68		2.1436		4.117				105361.58
		1.859	0.31	0.47		6127.79		6018.37		0.17	0.03	6018.57	
3077	R				50.72		2.1436		4.141				111380.15
		0.519	0.00	-1.08		4136.26		4062.40		0.05	0.01	4062.46	
92332	K				50.74		2.1431		4.147				115442.61
		1.001	-0.04	0.40		963.55		946.35		0.09	0.01	946.45	
3078	R				50.76		2.1433		4.160				116389.07
		1.082	0.26	-0.76		7378.37		7246.62		0.10	0.02	7246.74	
92331	K				50.78		2.1422		4.174				123635.81
		0.971	-0.07	0.53		-3584.11		-3520.10		0.09	0.01	-3520.00	
3079	M				50.80		2.1432		4.185				120115.82
		0.164	0.15	-0.20		4897.08		4809.63		0.02	0.00	4809.65	
92330	K				50.81		2.1422		4.188				124925.46
		1.735	-0.25	0.81		-5054.93		-4964.67		0.15	0.03	-4964.49	
3080	M				50.83		2.1431		4.209				119960.96
		1.321	-0.14	1.36		-6138.17		-6028.56		0.12	0.02	-6028.42	
92329	M				50.86		2.1443		4.225				113932.54
		0.799	-0.31	0.16		-7721.33		-7583.47		0.06	0.01	-7583.40	
78013	M				50.88		2.1461		4.234				106349.16

1	2	3	4	5	6	7	8	9	10	11	12	13	14
78013	M				50.88		2.1461		4.234				106349.16
		0.958	0.02	0.05		3089.13		3033.98		0.06	0.01	3034.05	
92328	K				50.92		2.1461		4.242				109383.20
		0.811	0.00	0.51		-1570.27		-1542.24		0.07	0.01	-1542.16	
92327	K				50.94		2.1468		4.252				107841.04
		1.813	-0.03	1.71		-1480.06		-1453.63		0.16	0.03	-1453.44	
92326	K				50.99		2.1477		4.274				106387.60
		1.615	0.51	0.10		7549.77		7414.98		0.14	0.02	7415.14	
92325	M				51.04		2.1468		4.294				113802.74
		1.534	0.04	-0.70		-408.01		-400.73		0.13	0.02	-400.58	
54361	K				51.08		2.1471		4.312				113402.18
		0.791	-0.11	0.94		-2109.35		-2071.70		0.07	0.01	-2071.62	
54360	K				51.11		2.1474		4.321				111330.55
		76.183	-0.74	9.53		14406.11		14148.87		6.16	1.13	14156.16	

46.2 B VALTIMO-MAANSELKÄ 1992.65

54360	K				51.11		2.1474		4.321				111330.55
		1.347	0.20	0.03		2497.62		2453.03		0.12	0.02	2453.17	
55301	R				51.14		2.1473		4.338				113783.72
		1.297	-0.19	1.07		-6243.22		-6131.77		0.12	0.02	-6131.63	
3088	R				51.16		2.1488		4.354				107652.10
		1.360	0.55	0.99		11050.39		10853.11		0.12	0.02	10853.25	
76003	M				51.19		2.1465		4.371				118505.35
		0.310	-0.01	-0.11		423.95		416.38		-0.02	0.00	416.36	
AP1003	M				51.18		2.1465		4.368				118921.71
		1.613	0.22	0.38		402.65		395.46		0.10	0.02	395.58	
92324	S				51.21		2.1462		4.381				119317.30
		0.220	-0.18	-0.07		-4817.78		-4731.77		0.02	0.00	-4731.75	
3089	R				51.22		2.1472		4.384				114585.55
		0.985	-0.38	0.97		-4728.31		-4643.90		0.09	0.01	-4643.80	
55302	M				51.24		2.1483		4.396				109941.75
		0.165	0.23	-0.21		8077.97		7933.76		0.00	0.00	7933.76	
92323	K				51.25		2.1468		4.396				117875.51
		1.482	-0.27	-1.23		-8111.05		-7966.25		0.11	0.02	-7966.12	
55303	S				51.28		2.1492		4.411				109909.40
		1.606	-0.10	0.26		-224.55		-220.54		0.11	0.02	-220.41	
92322	R				51.33		2.1502		4.426				109688.99
		0.869	-0.18	-0.46		-1264.06		-1241.50		0.08	0.01	-1241.41	
92321	R				51.35		2.1507		4.436				108447.59
		1.901	-0.19	-0.55		-1885.04		-1851.40		0.17	0.03	-1851.20	
55305	M				51.39		2.1517		4.460				106596.39
		0.837	0.42	0.35		9427.29		9259.02		0.03	0.01	9259.06	
92320	K				51.40		2.1499		4.463				115855.45
		1.852	-0.46	-0.39		-9836.60		-9661.03		0.16	0.03	-9660.84	
55306	M				51.44		2.1517		4.484				106194.61
		1.634	0.57	-1.05		6041.77		5933.95		0.12	0.02	5934.09	
55307	R				51.50		2.1519		4.501				112128.69
		1.096	0.45	0.45		10208.04		10025.84		0.06	0.02	10025.92	
92319	M				51.54		2.1510		4.509				122154.61
		1.069	0.12	-0.02		-139.42		-136.93		0.08	0.02	-136.83	
55308	M				51.57		2.1517		4.520				122017.77
		0.870	0.15	0.44		3266.71		3208.41		0.07	0.01	3208.49	
92318	S				51.60		2.1514		4.529				125226.27
		2.106	0.35	0.13		6631.52		6513.17		0.18	0.03	6513.38	
55309	S				51.65		2.1514		4.553				131739.64
		1.684	0.83	-1.79		17464.20		17152.47		0.14	0.03	17152.64	
55310	M				51.69		2.1489		4.572				148892.27
		1.368	0.32	-0.09		6345.30		6232.03		0.10	0.02	6232.15	
55311	M				51.74		2.1486		4.585				155124.43
		0.712	0.03	-0.07		614.99		604.02		0.05	0.01	604.08	
92317	M				51.76		2.1488		4.592				155728.50
		1.397	-0.04	0.60		-1996.09		-1960.46		0.11	0.02	-1960.33	
3099	R				51.80		2.1497		4.606				153768.18
		0.992	0.19	1.07		5544.71		5445.73		0.08	0.01	5445.82	
92316	M				51.83		2.1490		4.617				159214.01

1	2	3	4	5	6	7	8	9	10	11	12	13	14
92316	M				51.83		2.1490		4.617				159214.01
		0.937	-0.15	0.15		-3623.76		-3559.07		0.08	0.01	-3558.98	
3100	M				51.86		2.1499		4.628				155655.03
		1.446	0.07	0.00		1877.87		1844.35		0.12	0.02	1844.49	
55312	K				51.90		2.1500		4.644				157499.52
		0.896	0.06	-0.73		1714.14		1683.54		0.06	0.01	1683.61	
3101	M				51.93		2.1495		4.653				159183.14
		1.001	-0.12	0.91		-1470.46		-1444.21		0.07	0.01	-1444.13	
55313	K				51.96		2.1495		4.663				157739.01
		33.052	2.49	1.03		47248.79		46405.44		2.53	0.45	46408.42	

46.2 C MAANSELKÄ-SAVIAHO 1992.47

55313	K				51.96		2.1495		4.663				157739.01
		0.369	0.11	-0.28		2531.74		2486.55		0.03	0.01	2486.59	
92315	K				51.97		2.1490		4.666				160225.60
		0.799	-0.16	-0.95		-2796.18		-2746.27		0.06	0.01	-2746.20	
3102	R				52.00		2.1500		4.674				157479.40
		0.263	0.09	-0.25		2212.29		2172.80		0.02	0.00	2172.82	
92314	K				52.01		2.1497		4.676				159652.22
		1.541	0.14	-0.08		1832.41		1799.70		0.10	0.02	1799.82	
3103	M				52.06		2.1506		4.689				161452.05
		1.581	0.17	1.50		1146.20		1125.74		0.11	0.02	1125.87	
55316	K				52.11		2.1517		4.703				162577.92
		0.270	-0.12	0.26		-1133.73		-1113.49		0.02	0.00	-1113.47	
3104	K				52.12		2.1521		4.706				161464.46
		4.823	0.23	0.20		3792.73		3725.03		0.34	0.06	3725.43	

46.2 D SAVIAHO-VUOKATTI 1992.44

3104	K				52.12		2.1521		4.706				161464.46
		1.721	-0.49	-0.05		-8118.88		-7973.99		0.13	0.03	-7973.83	
3105	K				52.17		2.1549		4.724				153490.62
		1.448	-0.30	-0.25		-5943.97		-5837.91		0.11	0.02	-5837.78	
3106	M				52.21		2.1569		4.739				147652.84
		1.491	-0.08	-1.27		430.26		422.60		0.10	0.02	422.72	
55314	K				52.25		2.1575		4.752				148075.57
		0.043	-0.02	-0.15		-593.22		-582.63		0.00	0.00	-582.63	
69024	K				52.25		2.1576		4.753				147492.94
		1.439	0.09	-1.52		-310.96		-305.41		0.07	0.02	-305.32	
3107	M				52.31		2.1585		4.762				147187.62
		1.709	0.46	-1.48		12195.53		11977.94		0.09	0.03	11978.06	
3108	M				52.37		2.1575		4.774				159165.67
		1.780	-0.44	-0.23		-5756.31		-5653.61		0.11	0.03	-5653.47	
3109	M				52.43		2.1610		4.788				153512.19
		0.020	0.01	0.08		318.90		313.21		0.00	0.00	313.21	
69023	M				52.43		2.1609		4.788				153825.41
		1.790	-0.27	1.66		-942.69		-925.87		0.12	0.03	-925.72	
69022	M				52.48		2.1626		4.804				152899.69
		0.076	-0.14	0.16		-2664.42		-2616.89		0.00	0.00	-2616.89	
55315	M				52.48		2.1632		4.804				150282.80
		0.673	-0.16	0.15		-6995.58		-6870.81		0.05	0.01	-6870.75	
3110	M				52.50		2.1647		4.811				143412.05
		2.079	0.23	0.05		-1422.39		-1397.02		0.15	0.03	-1396.84	
3111	K				52.56		2.1654		4.831				142015.21
		1.110	1.07	-1.00		8553.93		8401.37		0.09	0.02	8401.48	
55338	K				52.59		2.1643		4.842				150416.69
		1.512	-0.12	0.46		-3451.72		-3390.16		0.10	0.02	-3390.04	
55339	M				52.64		2.1659		4.856				147026.65
		0.625	-0.73	-0.17		-2104.41		-2066.88		0.04	0.01	-2066.83	
92313	K				52.66		2.1667		4.862				144959.82
		1.034	-0.64	-1.06		-4829.04		-4742.93		0.07	0.02	-4742.84	
55340	S				52.68		2.1681		4.871				140216.98
		1.929	0.89	0.03		13356.04		13117.87		0.09	0.03	13117.99	
92312	K				52.74		2.1665		4.883				153334.97

1	2	3	4	5	6	7	8	9	10	11	12	13	14
92312	K				52.74		2.1665		4.883				153334.97
		0.438	-0.80	-0.57		-13393.45		-13154.61		-0.02	0.01	-13154.62	
3114	M				52.74		2.1692		4.880				140180.35
		1.714	2.37	-2.99		17645.23		17330.58		0.06	0.03	17330.67	
69021	M				52.80		2.1671		4.888				157511.01
		1.513	-1.05	-0.05		-17195.24		-16888.64		0.06	0.02	-16888.56	
3115	S				52.85		2.1716		4.896				140622.46
		0.450	0.13	-0.03		2584.33		2538.25		0.02	0.01	2538.28	
92311	K				52.87		2.1713		4.899				143160.73
		24.594	0.01	-8.23		-18638.05		-18305.53		1.44	0.39	-18303.70	

46.2 E VUOKATTI-KONTIOMÄKI 1992.38

92311	K				52.87		2.1713		4.899				143160.73
		2.244	-0.40	-0.71		7400.21		7268.27		0.06	0.03	7268.36	
55342	M				52.92		2.1706		4.906				150429.10
		0.890	-0.30	-1.40		-4350.31		-4272.75		0.06	0.01	-4272.68	
92310	M				52.94		2.1720		4.913				146156.43
		0.973	0.20	-0.44		1481.58		1455.17		0.07	0.01	1455.25	
55343	M				52.97		2.1721		4.922				147611.69
		1.371	-0.36	-1.01		-2441.50		-2397.97		0.10	0.02	-2397.85	
92309	P				53.01		2.1741		4.935				145213.84
		0.991	-0.07	-1.45		-541.48		-531.82		0.06	0.01	-531.75	
92308	P				53.05		2.1757		4.943				144682.08
		0.937	-0.04	0.02		-180.31		-177.10		0.04	0.01	-177.05	
3118	S				53.08		2.1782		4.948				144505.03
		0.281	0.03	0.01		689.20		676.92		0.01	0.00	676.93	
92307	K				53.09		2.1785		4.949				145181.97
		1.725	0.44	-0.32		7501.11		7367.43		0.04	0.03	7367.50	
92306	M				53.15		2.1783		4.954				152549.46
		1.092	0.32	0.29		9280.33		9114.93		0.02	0.02	9114.97	
92305	K				53.18		2.1765		4.957				161664.43
		1.389	-0.26	-1.34		-11783.70		-11573.68		0.02	0.02	-11573.64	
55345	M				53.22		2.1780		4.959				150090.79
		1.229	0.09	-1.39		670.50		658.55		0.06	0.02	658.63	
55347	M				53.26		2.1787		4.967				150749.42
		1.085	0.92	-0.64		11850.61		11639.41		0.05	0.02	11639.48	
69020	S				53.29		2.1776		4.974				162388.90
		0.971	0.13	-0.55		4406.89		4328.34		0.05	0.01	4328.40	
92304	K				53.33		2.1768		4.981				166717.29
		1.159	0.72	-1.38		11185.71		10986.33		0.06	0.02	10986.41	
92303	K				53.37		2.1743		4.989				177703.70
		0.823	0.26	-0.87		3562.58		3499.09		0.05	0.01	3499.15	
69014	M				53.39		2.1732		4.996				181202.85
		0.652	0.20	-0.58		2446.18		2402.57		0.05	0.01	2402.63	
92302	K				53.41		2.1723		5.002				183605.48
		0.435	-0.15	-0.51		-2396.14		-2353.42		0.03	0.01	-2353.38	
69015	M				53.42		2.1724		5.005				181252.10
		0.972	0.21	0.83		5536.01		5437.31		0.07	0.01	5437.39	
92301	K				53.45		2.1705		5.014				186689.49
		0.931	0.47	0.84		6749.71		6629.36		0.07	0.01	6629.44	
69016	K				53.48		2.1692		5.023				193318.94
		2.069	0.05	0.13		8005.82		7863.07		0.13	0.03	7863.23	
91229	K				53.54		2.1677		5.040				201182.17
		1.085	0.44	-0.91		4461.37		4381.81		0.08	0.02	4381.91	
91230	K				53.57		2.1666		5.050				205564.07
		0.968	-0.79	-0.74		-9507.24		-9337.70		0.06	0.01	-9337.63	
55350	K				53.60		2.1690		5.058				196226.45
		0.151	-0.07	0.15		-929.98		-913.40		0.01	0.00	-913.39	
69017	K				53.61		2.1693		5.059				195313.06
		1.490	-0.85	-2.20		-4710.94		-4626.95		0.07	0.02	-4626.86	
69018	M				53.66		2.1722		5.069				190686.20
		0.747	0.59	-0.79		2125.79		2087.89		0.06	0.01	2087.96	
69019	M				53.68		2.1727		5.076				192774.16
		1.773	-0.23	-0.33		-5641.41		-5540.84		0.13	0.03	-5540.68	
3128	R				53.72		2.1749		5.093				187233.49

1	2	3	4	5	6	7	8	9	10	11	12	13	14
3128	R				53.72		2.1749		5.093				187233.49
		1.721	0.12	1.02		-13011.34		-12779.43		0.13	0.03	-12779.27	
3129	R				53.77		2.1783		5.109				174454.22
		1.836	-0.46	0.51		-3603.99		-3539.76		0.13	0.48	-3539.15	
86004	K				53.82		2.1795		5.127				170915.06
		0.308	0.06	0.24		469.76		461.38		0.02	-0.01	461.39	
91320	K				53.83		2.1796		5.130				171376.46
		0.029	-0.01	-0.01		-354.76		-348.44		0.00	0.00	-348.44	
48117	K				53.83		2.1797		5.130				171028.02
		32.327	1.26	-13.53		28370.27		27864.57		1.79	0.90	27867.26	

47 A YLIVIESKA-OULAINEN 1992.65

1261	K				52.69		2.1776		6.758				63405.04
		1.275	-0.22	-0.37		-5133.84		-5042.35		0.00	-0.47	-5042.82	
90328	S				52.73		2.1786		6.757				58362.23
		0.848	-0.01	-0.27		-361.39		-354.95		0.04	-0.71	-355.62	
1262	S				52.76		2.1792		6.762				58006.60
		0.708	0.00	-1.22		266.24		261.50		0.02	0.35	261.87	
90327	S				52.78		2.1798		6.765				58268.46
		1.151	0.45	-1.34		5851.21		5746.94		-0.04	-0.01	5746.89	
47021	M				52.80		2.1782		6.759				64015.35
		1.509	0.39	-1.82		7879.11		7738.68		-0.07	-0.01	7738.60	
1264	K				52.83		2.1775		6.749				71753.94
		1.964	0.73	-0.66		13802.19		13556.20		-0.09	-0.01	13556.10	
63037A	K				52.86		2.1768		6.737				85310.05
		2.001	-0.57	-0.57		-9869.04		-9693.18		-0.07	-0.01	-9693.26	
92211	K				52.91		2.1848		6.728				75616.79
		1.919	0.13	1.02		5877.65		5772.94		-0.06	-0.01	5772.87	
92210	K				52.95		2.1858		6.720				81389.65
		0.914	-0.40	0.24		-9613.65		-9442.40		-0.01	-0.01	-9442.42	
59301	M				52.98		2.1880		6.718				71947.23
		1.386	0.19	-1.90		4451.07		4371.79		-0.01	-0.01	4371.77	
92209	K				53.02		2.1882		6.717				76319.00
		1.763	0.13	0.28		1621.02		1592.15		-0.01	-0.01	1592.13	
47022	K				53.07		2.1890		6.716				77911.13
		2.096	0.03	0.25		-165.06		-162.12		0.00	-0.01	-162.13	
1269	K				53.14		2.1916		6.716				77748.99
		2.254	-0.23	0.44		-5354.68		-5259.33		-0.03	-0.02	-5259.38	
1270	M				53.20		2.1935		6.713				72489.63
		2.136	-0.06	1.70		-1111.79		-1092.00		0.03	-0.01	-1091.98	
1271	K				53.28		2.1946		6.717				71397.63
		0.996	0.31	0.30		5950.21		5844.26		0.02	-0.01	5844.27	
47023	K				53.31		2.1941		6.719				77241.90
		0.977	0.21	0.68		4718.41		4634.40		0.00	-0.01	4634.39	
1272	K				53.34		2.1940		6.720				81876.30
		23.897	1.08	-3.24		18807.63		18472.52		-0.28	-0.97	18471.27	

47 B OULAINEN-TUOMIOJA 1992.73

1272	K				53.34		2.1940		6.720				81876.30
		1.873	-0.02	1.51		-11427.97		-11224.51		0.00	-0.01	-11224.52	
47024	K				53.40		2.1987		6.719				70651.78
		0.851	0.04	0.72		790.29		776.23		0.02	-0.01	776.24	
92207	K				53.43		2.1995		6.723				71428.02
		1.305	-0.31	0.21		-4597.91		-4516.08		0.04	-0.01	-4516.05	
1273	M				53.47		2.2030		6.728				66911.98
		1.301	-0.02	-0.10		588.54		578.07		0.04	-0.01	578.10	
48201	S				53.52		2.2050		6.734				67490.08
		1.289	0.08	-0.24		2795.36		2745.62		0.01	-0.01	2745.62	
80002	M				53.56		2.2051		6.736				70235.70
		2.071	0.34	-0.54		8744.11		8588.52		-0.05	-0.01	8588.46	
1276	K				53.62		2.2073		6.729				78824.16
		2.295	0.37	-0.93		8196.45		8050.63		-0.04	-0.02	8050.57	
1277	K				53.68		2.2109		6.724				86874.73

1	2	3	4	5	6	7	8	9	10	11	12	13	14
1277	K				53.68		2.2109		6.724				86874.73
		1.307	-0.14	0.72		-3424.41		-3363.50		-0.02	-0.01	-3363.53	
92208	K				53.72		2.2141		6.721				83511.20
		2.540	0.32	-1.34		8283.09		8135.76		-0.05	-0.02	8135.69	
1279	M				53.79		2.2121		6.715				91646.90
		2.136	0.09	-1.52		2779.05		2729.62		-0.07	-0.01	2729.54	
1280	K				53.84		2.2128		6.706				94376.43
		1.940	-0.13	0.43		7215.63		7087.28		0.02	-0.01	7087.29	
1281	M				53.90		2.2119		6.709				101463.72
		2.339	-0.23	0.55		-968.81		-951.57		0.10	-0.02	-951.49	
1282	K				53.99		2.2129		6.722				100512.23
		1.520	-0.08	0.24		-2189.50		-2150.55		0.06	-0.01	-2150.50	
1283	K				54.04		2.2144		6.731				98361.72
		1.337	-0.09	0.27		-1722.03		-1691.40		0.04	-0.01	-1691.37	
1284	K				54.09		2.2160		6.737				96670.35
		3.080	-0.32	0.92		-6706.90		-6587.65		0.09	-0.02	-6587.58	
1285	M				54.20		2.2234		6.749				90082.77
		3.282	0.04	0.72		-2791.05		-2741.44		0.05	-0.02	-2741.41	
92206	M				54.28		2.2252		6.756				87341.36
		3.010	0.05	0.69		1983.83		1948.57		0.10	-0.02	1948.65	
1287	P				54.38		2.2225		6.769				89290.01
		1.904	-0.09	-0.61		-1676.18		-1646.39		0.05	-0.01	-1646.35	
1288	M				54.45		2.2235		6.775				87643.66
		2.190	-0.39	-1.03		-6192.38		-6082.30		0.05	-0.02	-6082.27	
92205	M				54.53		2.2236		6.782				81561.39
		1.368	-0.11	-0.36		-2134.51		-2096.56		0.03	-0.01	-2096.54	
48204	R				54.57		2.2228		6.787				79464.86
		2.701	-0.42	-0.83		-6101.81		-5993.34		0.06	-0.02	-5993.30	
92212	K				54.67		2.2230		6.795				73471.56
		0.021	0.01	-0.12		198.69		195.15		0.00	0.00	195.15	
1291	K				54.67		2.2230		6.795				73666.71
		41.660	-1.01	-0.64		-8358.40		-8209.83		0.53	-0.29	-8209.59	

48 A TUOMIOJA-HIRVINEVA 1993.62

1291	K				54.67		2.2230		6.795				73666.71
		1.655	-0.41	0.68		-6180.21		-6070.35		0.02	0.78	-6069.55	
92213	M				54.73		2.2244		6.799				67597.16
		1.379	-0.25	-0.03		-3124.68		-3069.14		0.03	-0.05	-3069.16	
PR3	P				54.77		2.2248		6.803				64528.01
		1.376	-0.36	1.43		-6246.22		-6135.19		0.02	-0.38	-6135.55	
48206	M				54.82		2.2244		6.806				58392.46
		1.167	-0.15	0.17		-2231.85		-2192.18		0.02	0.36	-2191.80	
48207	R				54.86		2.2246		6.809				56200.66
		1.767	-0.18	0.59		-2559.94		-2514.43		-0.02	-0.01	-2514.46	
AP0109	P				54.92		2.2252		6.806				53686.20
		2.022	-0.37	-1.86		-3099.47		-3044.38		-0.03	-0.01	-3044.42	
1295	R				54.98		2.2246		6.802				50641.77
		2.233	-0.30	0.68		-3069.18		-3014.63		-0.03	-0.02	-3014.68	
1296	S				55.05		2.2240		6.797				47627.10
		1.963	-0.12	0.83		-2213.89		-2174.54		-0.04	-0.01	-2174.59	
92214	K				55.09		2.2246		6.791				45452.52
		0.906	0.15	-0.37		3132.30		3076.62		-0.03	-0.01	3076.58	
AP0502	P				55.11		2.2234		6.786				48529.10
		1.129	0.10	0.06		3577.57		3513.97		-0.03	-0.01	3513.93	
92215	M				55.14		2.2225		6.782				52043.03
		2.287	0.26	-0.47		5717.86		5616.21		-0.06	-0.02	5616.13	
1299	M				55.21		2.2202		6.772				57659.17
		1.724	0.29	-0.62		5795.91		5692.85		-0.05	-0.01	5692.79	
1300	M				55.26		2.2185		6.765				63351.95
		1.253	0.00	1.24		530.00		520.58		-0.03	-0.01	520.54	
48210	M				55.29		2.2177		6.760				63872.50
		2.710	-0.89	0.13		-12584.75		-12360.98		-0.07	-0.02	-12361.07	
1301	M				55.37		2.2204		6.749				51511.43
		23.571	-2.23	2.46		-22556.53		-22155.57		-0.30	0.58	-22155.29	

1	2	3	4	5	6	7	8	9	10	11	12	13	14
						48 B HIRVINEVA-KEMPELE 1993.69							
1301	M				55.37		2.2204		6.749				51511.43
		1.722	-0.28	-1.37		-4707.96		-4624.26		-0.05	-0.01	-4624.32	
1302	M				55.42		2.2224		6.741				46887.10
		1.998	-0.30	-0.12		-4991.32		-4902.59		-0.05	-0.01	-4902.65	
93210	R				55.47		2.2236		6.732				41984.46
		1.825	-0.24	0.79		-2235.54		-2195.80		-0.06	-0.01	-2195.87	
1304	M				55.52		2.2240		6.723				39788.59
		2.013	-0.49	1.62		-5022.97		-4933.68		-0.07	-0.01	-4933.76	
93211	M				55.57		2.2238		6.712				34854.82
		1.622	-0.74	1.33		-13611.48		-13369.54		-0.08	-0.01	-13369.63	
1306A	S				55.60		2.2267		6.699				21485.18
		1.994	-1.25	-0.13		-12826.97		-12599.01		-0.10	-0.01	-12599.12	
93212	R				55.63		2.2291		6.682				8886.06
		1.570	-0.10	-0.31		-2314.36		-2273.24		-0.06	-0.01	-2273.31	
1308	P				55.66		2.2298		6.673				6612.76
		2.147	-0.09	-0.43		-591.50		-580.99		-0.07	-0.01	-581.07	
1309	S				55.72		2.2309		6.661				6031.67
		1.876	-0.03	-0.13		-243.92		-239.59		-0.03	-0.01	-239.63	
93213	R				55.77		2.2322		6.657				5792.05
		1.124	0.05	0.18		517.23		508.05		-0.02	-0.01	508.02	
AP1301	P				55.81		2.2334		6.654				6300.06
		2.200	0.06	-0.08		279.90		274.93		-0.01	-0.02	274.90	
93214	R				55.88		2.2355		6.652				6574.97
		1.045	-0.04	-1.00		-864.30		-848.95		0.01	-0.01	-848.95	
48213	R				55.92		2.2368		6.653				5726.02
		2.462	0.14	0.52		2634.86		2588.07		0.01	-0.02	2588.06	
93251	R				56.00		2.2395		6.656				8314.08
		1.768	0.21	0.59		2745.65		2696.89		0.01	-0.01	2696.89	
1314	P				56.06		2.2406		6.658				11010.97
		1.221	-0.11	-0.06		-4169.50		-4095.46		0.01	-0.01	-4095.46	
93252	R				56.11		2.2436		6.659				6915.50
		2.399	0.35	1.28		10624.55		10435.90		-0.03	-0.02	10435.85	
93253	K				56.16		2.2449		6.654				17351.37
		0.021	0.02	-0.04		604.15		593.43		0.00	0.00	593.43	
93254	K				56.16		2.2449		6.654				17944.80
		29.007	-2.84	2.64		-34173.48		-33565.84		-0.59	-0.19	-33566.62	
						49.1 KEMPELE-VAALA 1993.71							
93254	K				56.16		2.2449		6.654				17944.80
		0.021	-0.02	-0.04		-604.15		-593.43		0.00	0.00	-593.43	
93253	K				56.16		2.2449		6.654				17351.37
		1.740	-0.37	0.61		-5843.35		-5739.62		0.02	0.01	-5739.59	
93255	M				56.21		2.2490		6.658				11611.77
		1.286	0.53	0.03		7944.61		7803.59		-0.05	0.01	7803.55	
93256	M				56.23		2.2497		6.649				19415.32
		1.724	-0.19	0.44		-2600.25		-2554.10		-0.04	0.01	-2554.13	
48004	M				56.27		2.2550		6.642				16861.18
		1.605	-0.23	-0.96		1668.35		1638.74		-0.10	0.01	1638.65	
48005	M				56.26		2.2566		6.627				18499.82
		1.239	0.00	-0.96		1897.55		1863.88		-0.07	0.01	1863.82	
93257	M				56.25		2.2569		6.616				20363.64
		1.283	-0.06	0.97		-2190.86		-2151.99		-0.06	0.01	-2152.04	
48006	M				56.23		2.2572		6.606				18211.60
		1.640	0.00	-0.81		531.52		522.09		-0.09	0.01	522.01	
48007	M				56.19		2.2564		6.591				18733.60
		1.992	0.17	-0.82		8490.54		8339.87		-0.12	0.01	8339.76	
48008	M				56.14		2.2532		6.573				27073.36
		1.538	0.41	1.15		7871.28		7731.58		-0.08	0.01	7731.51	
93258	M				56.10		2.2511		6.560				34804.87
		1.549	0.43	0.71		3799.52		3732.08		-0.08	0.01	3732.01	
48009	M				56.06		2.2493		6.547				38536.87
		1.800	-0.18	-1.27		1941.75		1907.28		-0.10	0.01	1907.19	
93259	M				56.01		2.2473		6.532				40444.06

1	2	3	4	5	6	7	8	9	10	11	12	13	14
93259	M				56.01		2.2473		6.532				40444.06
		2.230	-0.53	-1.95		-9453.00		-9285.19		-0.12	0.01	-9285.30	
48010	M				55.95		2.2476		6.512				31158.76
		2.048	-0.03	-1.08		-5252.67		-5159.42		-0.13	0.01	-5159.54	
48011	M				55.90		2.2483		6.492				25999.22
		1.071	-0.03	0.30		18.17		17.85		-0.07	0.00	17.78	
781468	M				55.87		2.2479		6.481				26017.00
		1.598	0.27	-1.92		5663.35		5562.81		-0.09	0.01	5562.73	
93260	R				55.83		2.2468		6.467				31579.72
		1.206	0.54	-0.49		11458.25		11254.82		-0.07	0.00	11254.75	
48013	M				55.79		2.2438		6.456				42834.47
		1.651	0.01	0.08		3189.73		3133.09		-0.10	0.01	3133.00	
93262	M				55.75		2.2422		6.440				45967.46
		0.678	-0.03	0.40		-2980.04		-2927.12		-0.04	0.00	-2927.16	
1988	M				55.75		2.2430		6.434				43040.30
		0.572	-0.06	0.45		-4048.27		-3976.39		-0.01	0.00	-3976.40	
93261	R				55.73		2.2427		6.432				39063.91
		1.680	-0.06	1.60		-4088.29		-4015.70		-0.11	0.01	-4015.80	
48014	M				55.69		2.2424		6.415				35048.11
		1.258	0.00	-0.20		1542.43		1515.04		-0.09	0.01	1514.96	
48015	M				55.66		2.2416		6.401				36563.07
		1.652	-0.05	0.15		-2041.69		-2005.43		-0.06	0.01	-2005.48	
1986	M				55.67		2.2422		6.392				34557.58
		1.236	-0.04	1.25		1288.82		1265.94		-0.08	0.01	1265.87	
48016	M				55.64		2.2413		6.379				35823.45
		1.107	0.05	1.77		-6661.53		-6543.23		-0.08	0.00	-6543.31	
93347	R				55.64		2.2425		6.367				29280.13
		1.180	-0.13	1.94		-8338.66		-8190.59		-0.07	0.00	-8190.66	
48017	S				55.64		2.2448		6.356				21089.49
		1.294	0.20	0.13		10585.60		10397.65		-0.05	0.01	10397.61	
93346	S				55.67		2.2437		6.347				31487.09
		1.037	0.41	0.62		7660.11		7524.09		-0.07	0.00	7524.02	
93345	R				55.67		2.2422		6.335				39011.12
		1.008	1.45	0.79		9946.95		9770.31		-0.07	0.00	9770.24	
48018	M				55.66		2.2405		6.324				48781.36
		1.629	0.05	-0.10		13777.04		13532.34		-0.11	0.01	13532.24	
59013	M				55.62		2.2372		6.306				62313.60
		0.619	0.04	-0.02		2986.22		2933.18		-0.04	0.00	2933.14	
93342	K				55.61		2.2367		6.299				65246.74
		1.507	0.20	-0.19		6464.22		6349.40		-0.11	0.01	6349.30	
48020	M				55.58		2.2384		6.282				71596.04
		1.806	-0.23	2.43		11225.99		11026.59		-0.13	0.01	11026.47	
48021	M				55.58		2.2365		6.262				82622.50
		0.968	-0.12	-0.06		-2127.50		-2089.71		-0.07	0.00	-2089.78	
93344	K				55.58		2.2357		6.251				80532.73
		1.164	-0.30	0.92		-3809.82		-3742.15		-0.05	0.00	-3742.20	
48022	M				55.58		2.2361		6.243				76790.53
		1.065	-0.19	0.05		-2638.88		-2592.00		-0.08	0.00	-2592.08	
93343	S				55.58		2.2364		6.231				74198.47
		0.949	0.01	-0.32		4309.83		4233.26		-0.07	0.00	4233.19	
48023	M				55.56		2.2347		6.220				78431.66
		2.377	0.01	1.60		-801.74		-787.50		-0.18	0.01	-787.67	
1977	M				55.54		2.2326		6.192				77643.98
		1.124	-0.05	0.50		2565.69		2520.11		-0.06	0.00	2520.05	
93341	K				55.52		2.2319		6.182				80164.04
		1.939	0.03	1.67		-1317.32		-1293.91		-0.15	0.01	-1294.05	
48024	M				55.50		2.2318		6.158				78869.99
		1.804	0.02	0.80		955.66		938.68		-0.13	0.01	938.56	
48025	P				55.46		2.2310		6.138				79808.55
		2.450	0.48	0.72		5967.95		5861.89		-0.15	0.01	5861.75	
48026	M				55.39		2.2294		6.114				85670.30
		1.933	0.07	0.14		274.73		269.85		-0.11	0.01	269.75	
48027	M				55.33		2.2284		6.097				85940.05
		2.110	0.25	-0.08		5387.92		5292.16		-0.09	0.01	5292.08	
48028	M				55.25		2.2247		6.082				91232.14
		1.606	0.09	1.15		5638.93		5538.70		-0.09	0.01	5538.62	
48029	M				55.20		2.2227		6.068				96770.75

1	2	3	4	5	6	7	8	9	10	11	12	13	14
48029	M				55.20		2.2227		6.068				96770.75
		2.156	-0.16	1.80		3000.73		2947.38		-0.12	0.01	2947.27	
48030	M				55.13		2.2205		6.049				99718.02
		1.163	0.14	-0.29		1304.55		1281.36		-0.06	0.00	1281.30	
48031	M				55.09		2.2202		6.039				100999.33
		1.485	0.00	-0.86		676.97		664.93		-0.08	0.01	664.86	
48032	M				55.05		2.2192		6.027				101664.17
		1.724	0.07	-0.07		-210.95		-207.20		-0.10	0.01	-207.29	
AP0110	R				54.99		2.2178		6.011				101456.88
		1.310	0.05	-2.47		556.38		546.49		-0.02	0.01	546.48	
93340	K				55.02		2.2186		6.008				102003.35
		1.310	0.02	0.75		-555.64		-545.76		0.02	0.01	-545.73	
93338	R				54.99		2.2178		6.011				101457.62
		0.967	0.02	0.38		352.04		345.78		-0.06	0.00	345.72	
93337	R				54.96		2.2170		6.001				101803.34
		1.644	0.08	-0.38		1147.30		1126.90		-0.11	0.01	1126.80	
93336	R				54.92		2.2137		5.984				102930.13
		1.687	0.55	0.24		6382.93		6269.40		-0.11	0.01	6269.30	
63048	P				54.87		2.2105		5.967				109199.43
		1.565	-0.66	-0.29		-10359.67		-10175.38		-0.10	0.01	-10175.47	
93335	R				54.82		2.2108		5.951				99023.96
		2.012	0.34	1.35		4043.86		3971.92		-0.13	0.01	3971.80	
93334	R				54.77		2.2079		5.930				102995.75
		2.557	0.75	2.66		9549.25		9379.32		-0.16	0.01	9379.17	
48034	P				54.70		2.2015		5.904				112374.92
		0.863	0.09	0.25		2415.55		2372.56		-0.06	0.00	2372.50	
93333	R				54.69		2.2005		5.894				114747.43
		1.682	0.93	0.72		8902.12		8743.65		-0.12	0.01	8743.54	
93332	R				54.65		2.1965		5.875				123490.96
		1.750	0.20	0.55		2121.89		2084.11		-0.12	0.01	2084.00	
93331	R				54.64		2.1946		5.857				125574.96
		1.532	0.05	2.29		706.76		694.18		-0.09	0.01	694.10	
93339	R				54.65		2.1942		5.843				126269.06
		1.111	-0.12	1.09		-1282.63		-1259.79		-0.06	0.00	-1259.85	
48035	M				54.65		2.1937		5.833				125009.22
		0.827	0.07	1.33		970.79		953.52		-0.04	0.00	953.48	
93330	K				54.66		2.1933		5.826				125962.69
		0.321	-0.02	-0.11		-2721.03		-2672.58		-0.02	0.00	-2672.60	
3826	S				54.66		2.1932		5.823				123290.09
		0.518	-0.13	1.19		-578.99		-568.68		-0.01	0.25	-568.44	
VAALA5	K				54.67		2.1933		5.822				122721.65
		0.035	0.03	0.08		1434.06		1408.52		0.00	-0.05	1408.47	
1964	K				54.67		2.1930		5.822				124130.13
		93.192	5.12	22.31		108110.95		106190.00		-5.25	0.63	106185.38	

49.2 A VAALA-LIMINPURO 1993.43

1964	K				54.67		2.1930		5.822				124130.13
		0.919	0.04	-0.10		5730.43		5628.38		-0.03	0.02	5628.37	
68007	K				54.67		2.1920		5.817				129758.50
		1.917	-0.30	-0.19		7250.52		7121.41		-0.10	0.04	7121.35	
48036	M				54.69		2.1908		5.802				136879.84
		1.876	0.11	1.19		5415.99		5319.53		-0.12	0.03	5319.44	
48037	M				54.69		2.1894		5.784				142199.29
		2.173	0.10	-1.38		2902.73		2851.03		-0.14	0.04	2850.93	
48038	M				54.68		2.1880		5.763				145050.21
		1.049	0.01	-0.22		389.99		383.05		-0.07	0.02	383.00	
93107	M				54.68		2.1869		5.753				145433.20
		1.128	-0.04	-0.49		-7762.53		-7624.26		-0.07	0.02	-7624.31	
93106	M				54.68		2.1874		5.742				137808.91
		1.341	0.01	-1.41		-8338.87		-8190.34		-0.07	0.02	-8190.39	
1956	M				54.67		2.1888		5.731				129618.51
		0.038	0.01	-0.20		-967.79		-950.56		0.00	0.00	-950.56	
63047	M				54.67		2.1890		5.731				128667.95
		1.234	0.10	-0.46		-317.17		-311.52		-0.04	0.02	-311.54	
93105	R				54.68		2.1893		5.726				128356.41

1	2	3	4	5	6	7	8	9	10	11	12	13	14
93105	R				54.68		2.1893		5.726				128356.41
		1.233	0.14	-0.84		11980.31		11766.92		-0.08	0.02	11766.86	
48039	M				54.68		2.1875		5.714				140123.28
		2.195	0.26	-1.63		-10281.24		-10098.12		-0.14	0.04	-10098.22	
65085	R				54.67		2.1908		5.693				130025.07
		2.079	-0.02	0.58		-2318.78		-2277.49		-0.13	0.04	-2277.58	
48041	M				54.67		2.1927		5.673				127747.48
		0.988	0.04	-0.97		6397.50		6283.58		-0.06	0.02	6283.54	
93103	M				54.67		2.1925		5.664				134031.02
		1.509	0.11	-0.09		1576.78		1548.70		-0.11	0.03	1548.62	
65086	M				54.65		2.1925		5.648				135579.64
		1.556	-0.24	0.46		-5226.04		-5132.98		-0.10	0.03	-5133.05	
93104	R				54.62		2.1929		5.632				130446.60
		1.771	0.08	-0.71		5396.10		5300.00		-0.12	0.03	5299.91	
62076	M				54.60		2.1906		5.614				135746.50
		1.297	0.04	-0.66		-6921.85		-6798.58		-0.07	0.02	-6798.63	
1948	K				54.57		2.1914		5.603				128947.87
		24.303	0.45	-7.12		4906.09		4818.75		-1.45	0.44	4817.74	

49.2 B LIMINPURO-KONTIOMÄKI 2004.67

1948	K				54.57		2.1914		5.603				128947.87
		2.908	0.58	0.78		23416.23		22999.16		0.11	0.05	22999.32	
1946	K				54.48		2.1862		5.580				151947.20
		1.354	-0.63	-0.89		-9633.54		-9461.94		-0.06	0.02	-9461.98	
1947	K				54.52		2.1883		5.592				142485.22
		2.627	-0.17	0.89		-14189.97		-13937.25		-0.05	0.05	-13937.25	
93102	S				54.57		2.1916		5.603				128547.97
		1.126	0.00	-0.08		5881.68		5776.94		0.05	0.02	5777.01	
65087	K				54.55		2.1903		5.591				134324.98
		1.836	-0.01	0.21		14146.21		13894.25		0.08	0.03	13894.36	
65088	M				54.51		2.1872		5.573				148219.34
		2.316	0.25	1.01		1645.05		1615.75		0.11	0.04	1615.90	
48046	K				54.45		2.1867		5.550				149835.25
		2.127	-0.11	0.90		-9243.71		-9079.06		0.10	0.04	-9078.92	
48047	M				54.41		2.1882		5.528				140756.33
		1.137	0.08	0.19		7001.67		6876.95		0.05	0.02	6877.02	
93101	K				54.39		2.1868		5.517				147633.34
		1.280	0.09	0.32		-10178.95		-9997.65		0.06	0.02	-9997.57	
48137	M				54.36		2.1899		5.504				137635.77
		1.697	0.04	2.66		323.25		317.50		0.08	0.03	317.61	
62073	S				54.34		2.1914		5.486				137953.38
		0.006	-0.01	-0.03		1110.96		1091.17		0.00	0.00	1091.17	
P62073	S				54.34		2.1912		5.486				139044.55
		2.284	-0.04	-0.80		-301.60		-296.23		0.10	0.04	-296.09	
04301	S				54.29		2.1921		5.464				138748.47
		1.957	-0.05	0.39		14040.99		13790.93		0.02	0.04	13790.99	
92343	K				54.22		2.1909		5.460				152539.46
		0.020	0.01	-0.03		-1082.73		-1063.44		0.00	0.00	-1063.44	
92342	K				54.22		2.1911		5.461				151476.02
		1.109	0.04	0.07		-1171.58		-1150.72		0.02	0.02	-1150.68	
92344	K				54.19		2.1903		5.456				150325.34
		1.062	-0.10	0.58		-2983.38		-2930.24		0.03	0.02	-2930.19	
64011	K				54.15		2.1905		5.449				147395.15
		0.983	-0.06	0.78		-3877.40		-3808.35		0.05	0.02	-3808.28	
92345	K				54.12		2.1933		5.439				143586.87
		1.373	-0.15	-0.42		-4429.94		-4351.06		0.06	0.03	-4350.97	
92346	K				54.09		2.1958		5.426				139235.88
		1.987	0.09	1.43		4090.60		4017.77		0.09	0.04	4017.90	
48131	M				54.07		2.1940		5.407				143253.79
		1.794	0.01	0.68		-6111.03		-6002.23		0.05	0.03	-6002.15	
92129	S				54.10		2.1958		5.395				137251.64
		1.622	0.16	-0.09		1992.48		1957.00		0.06	0.03	1957.09	
92128	K				54.11		2.1947		5.381				139208.73
		1.753	0.30	0.82		8498.24		8346.92		0.07	0.03	8347.02	
92127	K				54.10		2.1917		5.365				147555.76

1	2	3	4	5	6	7	8	9	10	11	12	13	14
92127	K				54.10		2.1917		5.365				147555.76
		0.208	0.00	-0.06		-656.92		-645.23		0.01	0.00	-645.22	
48129	K				54.10		2.1917		5.364				146910.55
		1.172	0.08	0.74		3929.31		3859.33		0.05	0.02	3859.40	
92130	K				54.10		2.1906		5.353				150769.96
		1.208	-0.34	0.44		-12695.74		-12469.65		0.05	0.02	-12469.58	
65089	K				54.10		2.1918		5.342				138300.37
		1.793	-0.04	1.44		-6415.80		-6301.54		0.07	0.03	-6301.44	
48127	K				54.10		2.1897		5.327				131998.94
		1.975	-0.01	-0.28		-6094.84		-5986.29		0.10	0.04	-5986.15	
65090	K				54.07		2.1902		5.306				126012.79
		2.097	-0.01	1.03		2780.71		2731.19		0.10	0.04	2731.33	
62071	M				54.05		2.1898		5.285				128744.12
		1.571	0.10	1.50		1167.99		1147.19		0.05	0.03	1147.27	
65091	S				54.06		2.1893		5.274				129891.39
		1.151	0.01	0.21		256.72		252.15		0.05	0.02	252.22	
65092	K				54.05		2.1893		5.263				130143.61
		1.271	0.05	0.40		-2074.55		-2037.60		0.06	0.02	-2037.52	
48123	K				54.04		2.1906		5.250				128106.08
		2.144	0.06	0.19		-546.11		-536.39		0.10	0.04	-536.25	
48122	M				54.01		2.1937		5.228				127569.84
		2.049	0.06	0.16		-3135.46		-3079.63		0.10	0.04	-3079.49	
62074	S				53.99		2.1938		5.208				124490.35
		2.055	0.23	1.54		1030.48		1012.13		0.10	0.04	1012.27	
62075	S				53.96		2.1902		5.187				125502.61
		1.654	-0.03	-1.13		10231.02		10048.80		0.07	0.03	10048.90	
92341	K				53.95		2.1880		5.171				135551.52
		1.646	0.49	0.53		8974.57		8814.71		0.07	0.03	8814.81	
92340	K				53.93		2.1863		5.156				144366.33
		1.336	0.40	-0.77		16346.87		16055.64		0.06	0.02	16055.72	
48118	M				53.89		2.1825		5.145				160422.05
		1.951	0.71	1.17		10798.28		10605.86		0.07	0.04	10605.97	
48117	K				53.83		2.1797		5.130				171028.02
		59.639	2.08	16.48		42840.05		42076.86		2.19	1.08	42080.13	

50 KEMPELE-OULU 1994.61

93254	K				56.16		2.2449		6.654				17944.80
		0.021	-0.02	-0.04		-604.15		-593.43		0.00	0.00	-593.43	
93253	K				56.16		2.2449		6.654				17351.37
		0.077	0.01	-0.17		-1544.00		-1516.59		0.00	0.00	-1516.59	
93271	K				56.16		2.2452		6.655				15834.78
		1.225	0.42	-0.41		-10594.26		-10406.19		0.04	-0.01	-10406.16	
94220	S				56.20		2.2491		6.663				5428.60
		1.122	-0.02	0.12		-333.71		-327.79		0.03	-0.01	-327.77	
48214	R				56.23		2.2506		6.670				5100.84
		0.168	0.00	-0.02		679.76		667.70		0.00	0.00	667.70	
94221	P				56.24		2.2506		6.671				5768.53
		1.912	-0.17	-2.07		725.65		712.77		0.06	-0.02	712.81	
48215	R				56.30		2.2515		6.681				6481.34
		0.818	-0.23	0.77		3800.97		3733.51		0.00	-0.01	3733.50	
48001	M				56.32		2.2515		6.682				10214.84
		0.492	0.21	-0.37		-3841.59		-3773.41		0.02	-0.01	-3773.40	
94222	S				56.33		2.2524		6.687				6441.44
		1.877	-0.01	-0.59		559.53		549.60		0.05	-0.02	549.63	
48225	R				56.39		2.2528		6.696				6991.07
		2.314	-0.04	-0.92		5922.11		5817.02		-0.01	-0.03	5816.98	
1320	P				56.45		2.2545		6.693				12808.05
		1.384	0.35	0.43		-6729.02		-6609.62		0.02	-0.02	-6609.62	
92406	K				56.48		2.2563		6.696				6198.44
		11.410	0.50	-3.27		-11958.71		-11746.44		0.21	-0.13	-11746.36	

1	2	3	4	5	6	7	8	9	10	11	12	13	14
						51 A OULU-PANUMANJÄRVI 1995.43							
92406	K				56.48		2.2563		6.696				6198.44
		3.239	-0.56	-0.02		13150.57		12917.26		-0.08	0.07	12917.25	
95201	M				56.52		2.2597		6.678				19115.69
		1.781	0.00	1.14		953.56		936.65		-0.04	0.04	936.65	
53303	K				56.56		2.2627		6.669				20052.33
		0.020	0.00	0.00		53.30		52.35		0.00	0.00	52.35	
53309	K				56.56		2.2627		6.669				20104.68
		2.448	-0.45	-0.01		10077.48		9898.73		-0.06	0.05	9898.72	
95202	M				56.60		2.2633		6.655				30003.40
		2.654	-0.31	2.16		2333.42		2292.04		-0.07	0.05	2292.02	
53305	M				56.64		2.2648		6.640				32295.42
		1.656	-0.06	-0.70		2237.62		2197.93		-0.03	0.03	2197.93	
53306	M				56.68		2.2659		6.633				34493.35
		1.766	-0.51	1.14		6967.95		6844.39		-0.02	0.04	6844.41	
53307	M				56.74		2.2666		6.629				41337.75
		2.826	-0.04	1.64		3977.45		3906.92		-0.03	0.06	3906.95	
53308	M				56.82		2.2676		6.622				45244.70
		1.420	0.12	-0.20		-5008.15		-4919.34		-0.03	0.03	-4919.34	
95203	M				56.83		2.2684		6.615				40325.36
		2.050	0.07	-2.13		2360.57		2318.73		-0.05	0.04	2318.72	
95204	M				56.87		2.2687		6.604				42644.08
		0.698	0.19	1.05		164.29		161.38		-0.02	0.01	161.37	
53311	M				56.89		2.2690		6.600				42805.44
		1.019	-0.16	-0.78		2003.87		1968.34		-0.03	0.02	1968.33	
741402	M				56.90		2.2687		6.592				44773.77
		1.680	0.01	1.51		-178.47		-175.30		-0.06	0.03	-175.33	
95205	K				56.92		2.2683		6.579				44598.45
		1.631	-0.04	1.01		-1211.50		-1190.02		0.02	0.03	-1189.97	
53313	K				56.94		2.2690		6.584				43408.48
		1.052	-0.18	-0.11		2725.37		2677.06		-0.04	0.02	2677.04	
53314	K				56.96		2.2683		6.577				46085.51
		1.956	0.16	-1.36		1885.49		1852.07		-0.07	0.04	1852.04	
53315	M				56.98		2.2678		6.562				47937.55
		1.978	-0.02	1.79		-2100.78		-2063.53		-0.03	0.04	-2063.52	
95206	K				56.96		2.2690		6.555				45874.03
		0.757	-0.21	1.22		6484.43		6369.46		-0.03	0.02	6369.45	
887132	K				56.96		2.2686		6.549				52243.48
		1.740	0.01	2.10		1306.59		1283.42		-0.07	0.04	1283.39	
53317	M				56.97		2.2705		6.534				53526.86
		1.591	-0.21	-1.21		4440.84		4362.11		-0.04	0.03	4362.10	
53318	M				57.00		2.2737		6.525				57888.96
		1.817	-0.06	1.35		3001.83		2948.61		-0.07	0.04	2948.58	
95207	K				57.03		2.2722		6.510				60837.53
		0.060	0.02	-0.19		-794.53		-780.44		0.00	0.00	-780.44	
53324	K				57.03		2.2724		6.510				60057.09
		0.206	-0.02	0.34		1028.56		1010.33		0.00	0.00	1010.33	
53319	M				57.02		2.2721		6.510				61067.44
		1.650	-0.54	0.90		7061.20		6936.00		-0.07	0.03	6935.96	
53320	M				57.02		2.2680		6.495				68003.39
		2.410	0.03	-0.36		3330.46		3271.40		-0.09	0.05	3271.36	
95208	M				57.02		2.2650		6.475				71274.75
		1.800	-0.34	-0.92		10939.09		10745.07		-0.07	0.04	10745.04	
53322	M				57.04		2.2618		6.461				82019.78
		1.908	-0.16	-1.54		5243.85		5150.83		-0.06	0.04	5150.81	
53323	M				57.06		2.2603		6.449				87170.60
		2.164	-0.51	0.78		4320.82		4244.17		-0.06	0.04	4244.15	
95209	M				57.12		2.2581		6.435				91414.75
		2.394	-0.23	-0.96		4813.06		4727.66		-0.10	0.05	4727.61	
95210	M				57.14		2.2567		6.413				96142.36
		2.266	-0.69	1.07		11309.04		11108.36		-0.10	0.05	11108.31	
53326	S				57.14		2.2525		6.390				107250.66
		3.076	-1.29	-1.02		14657.79		14397.64		-0.13	0.06	14397.57	
95211	M				57.18		2.2516		6.363				121648.22
		2.984	-0.10	2.28		-5139.52		-5048.30		-0.11	0.06	-5048.35	
53327	M				57.22		2.2518		6.339				116599.87

1	2	3	4	5	6	7	8	9	10	11	12	13	14
53327	M				57.22		2.2518		6.339				116599.87
		2.254	0.16	-0.70		-4748.76		-4664.49		-0.09	0.05	-4664.53	
95212	M				57.25		2.2544		6.319				111935.34
		2.243	-0.08	0.16		-1821.79		-1789.46		-0.06	0.05	-1789.47	
95213	S				57.29		2.2565		6.305				110145.88
		2.079	-0.08	-1.02		3592.20		3528.46		-0.06	0.04	3528.44	
53329	M				57.34		2.2575		6.291				113674.32
		63.273	-6.08	8.41		109417.20		107476.44		-1.85	1.29	107475.88	

51 B PANUMANJÄRVI-KÄRENPERÄ (TEMPERATURE GRAD. PREDICTION) 1995.61

53329	M				57.34		2.2575		6.291				113674.32
		2.870	-0.01	0.38		-5160.27		-5068.72		-0.05	0.06	-5068.71	
53330	R				57.42		2.2598		6.279				108605.61
		1.907	0.01	-0.59		1238.17		1216.20		-0.05	0.04	1216.19	
53331	M				57.47		2.2595		6.268				109821.80
		1.692	-0.12	-0.64		1827.95		1795.52		-0.07	0.03	1795.48	
53332	M				57.49		2.2597		6.252				111617.28
		0.495	-0.08	0.39		-12386.84		-12167.11		0.00	0.01	-12167.10	
53334	K				57.50		2.2625		6.251				99450.18
		0.006	0.00	0.08		114.99		112.95		0.00	0.00	112.95	
53333	K				57.50		2.2625		6.251				99563.13
		1.735	0.10	0.57		11198.05		10999.41		-0.05	0.04	10999.40	
95214	M				57.47		2.2595		6.241				110562.53
		2.532	0.22	0.05		3243.82		3186.27		-0.11	0.05	3186.21	
53335	M				57.46		2.2567		6.216				113748.74
		3.578	-0.30	1.09		-3945.63		-3875.62		-0.15	0.07	-3875.70	
53336	K				57.43		2.2568		6.182				109873.05
		14.815	-0.18	1.33		-3869.75		-3801.09		-0.48	0.30	-3801.27	

51 C KÄRENPERÄ-PUDASJÄRVI (TEMPERATURE GRAD. PREDICTION) 1995.64

53336	K				57.43		2.2568		6.182				109873.05
		0.061	-0.01	0.10		99.62		97.85		0.00	0.00	97.85	
53338	K				57.44		2.2568		6.183				109970.90
		0.052	0.01	0.07		-357.41		-351.07		0.00	0.00	-351.07	
53337	K				57.43		2.2569		6.182				109619.83
		1.917	-0.06	1.37		-1644.62		-1615.43		-0.09	0.04	-1615.48	
95215	R				57.43		2.2550		6.162				108004.34
		2.637	-0.06	1.20		3665.63		3600.58		-0.11	0.05	3600.52	
53134	M				57.45		2.2507		6.136				111604.86
		2.136	0.03	0.82		925.98		909.54		-0.05	0.04	909.53	
53133	M				57.50		2.2500		6.124				112514.40
		2.520	-0.05	0.87		3106.40		3051.25		-0.11	0.05	3051.19	
53132	M				57.47		2.2466		6.099				115565.59
		1.590	-0.10	0.20		-5100.49		-5009.94		-0.06	0.03	-5009.97	
53131	M				57.45		2.2457		6.084				110555.62
		1.860	-0.19	-1.73		4495.63		4415.82		0.00	0.04	4415.86	
53130	M				57.51		2.2457		6.084				114971.48
		2.525	-0.06	-0.33		1969.74		1934.77		-0.06	0.05	1934.76	
95216	M				57.58		2.2460		6.071				116906.24
		1.474	-0.07	2.25		-435.65		-427.91		-0.03	0.03	-427.91	
95217	M				57.62		2.2464		6.064				116478.33
		1.969	0.14	0.06		-1471.96		-1445.83		-0.04	0.04	-1445.83	
53128	M				57.68		2.2475		6.056				115032.50
		1.812	-0.10	-0.03		7673.68		7537.45		-0.04	0.04	7537.45	
95218	M				57.72		2.2463		6.047				122569.95
		2.714	0.05	1.28		-10397.39		-10212.83		-0.06	0.06	-10212.83	
53126	K				57.79		2.2528		6.032				112357.11
		0.932	-0.06	-0.14		545.79		536.10		0.02	0.02	536.14	
KP771	S				57.82		2.2526		6.036				112893.26
		3.028	-0.20	0.58		4427.98		4349.39		-0.09	0.06	4349.36	
53124	M				57.89		2.2498		6.016				117242.62
		2.000	0.08	-0.50		4875.87		4789.32		-0.07	0.04	4789.29	
53123	M				57.92		2.2486		6.000				122031.91

1	2	3	4	5	6	7	8	9	10	11	12	13	14
53123	M				57.92		2.2486		6.000				122031.91
		2.602	-0.05	0.29		2949.57		2897.21		-0.10	0.05	2897.16	
95301	K				57.95		2.2481		5.978				124929.08
		0.019	0.00	0.01		-868.36		-852.94		0.00	0.00	-852.94	
53122	K				57.95		2.2483		5.978				124076.14
		31.848	-0.70	6.37		14460.00		14203.33		-0.89	0.64	14203.08	

51 D PUDASJÄRVI-POIJULA (TEMPERATURE GRAD. PREDICTION) 1995.39

53122	K				57.95		2.2483		5.978				124076.14
		2.401	0.02	2.37		7876.15		7736.33		-0.11	0.05	7736.27	
95302	M				57.94		2.2468		5.955				131812.40
		0.911	0.05	-0.01		1580.58		1552.52		-0.04	0.02	1552.50	
95303	K				57.92		2.2462		5.946				133364.90
		0.651	0.00	-0.01		3144.74		3088.91		-0.03	0.01	3088.89	
53121	M				57.92		2.2445		5.940				136453.80
		3.347	0.04	1.09		2529.26		2484.35		-0.15	0.07	2484.27	
53120	M				57.94		2.2434		5.908				138938.06
		1.306	-0.02	-0.42		1539.14		1511.81		-0.06	0.03	1511.78	
PP1	P				57.95		2.2426		5.896				140449.84
		1.381	-0.04	2.83		-10615.48		-10427.00		-0.04	0.03	-10427.01	
95304	K				57.93		2.2442		5.888				130022.84
		1.058	0.40	0.54		14897.45		14632.91		-0.03	0.02	14632.90	
53119	M				57.95		2.2408		5.881				144655.74
		1.817	-0.06	1.18		-18784.37		-18450.80		-0.07	0.04	-18450.83	
95305	S				57.98		2.2438		5.866				126204.90
		2.096	-0.08	1.65		8688.30		8534.02		-0.08	0.04	8533.98	
53118	M				58.02		2.2411		5.849				134738.88
		2.772	0.09	-3.47		10311.76		10128.64		-0.11	0.06	10128.59	
53117	K				58.01		2.2412		5.825				144867.47
		17.740	0.40	5.75		21167.53		20791.70		-0.72	0.37	20791.35	

51 E POIJULA-KOITILA (TEMPERATURE GRAD. PREDICTION) 1995.66

53117	K				58.01		2.2412		5.825				144867.47
		1.943	-0.31	0.06		9836.44		9661.76		-0.07	0.04	9661.73	
95219	M				58.03		2.2420		5.808				154529.20
		1.919	-0.16	-0.59		-1051.84		-1033.16		-0.06	0.04	-1033.18	
95220	M				58.05		2.2441		5.795				153496.02
		2.354	0.10	1.31		10368.63		10184.57		-0.09	0.05	10184.53	
53115	K				58.07		2.2522		5.774				163680.55
		1.200	0.21	-1.22		9439.79		9272.24		-0.04	0.02	9272.22	
53114	M				58.09		2.2497		5.764				172952.78
		1.560	-0.28	-0.37		-7071.18		-6945.68		-0.05	0.03	-6945.70	
53113	M				58.11		2.2518		5.752				166007.08
		2.018	0.12	1.42		6526.00		6410.17		-0.04	0.04	6410.17	
95221	M				58.17		2.2506		5.742				172417.25
		1.399	-0.18	0.71		-5277.76		-5184.09		-0.04	0.03	-5184.10	
95222	S				58.20		2.2520		5.734				167233.15
		3.566	0.49	-0.36		50693.46		49793.53		-0.13	0.07	49793.47	
53111	M				58.21		2.2431		5.703				217026.62
		2.342	0.03	-0.11		12214.94		11998.03		-0.07	0.05	11998.01	
95223	M				58.25		2.2420		5.686				229024.63
		1.716	-0.05	-0.32		-11465.79		-11262.20		-0.06	0.03	-11262.23	
53110	M				58.26		2.2449		5.672				217762.40
		2.934	-0.19	-0.32		-30366.61		-29827.58		-0.09	0.06	-29827.61	
95224	M				58.29		2.2538		5.651				187934.79
		1.635	-0.35	-0.62		-10190.53		-10009.70		-0.06	0.03	-10009.73	
53109	M				58.30		2.2559		5.638				177925.06
		2.012	-0.11	1.48		-4795.06		-4709.98		-0.06	0.04	-4710.00	
591127	M				58.32		2.2578		5.624				173215.06
		2.016	-0.30	1.21		6827.41		6706.29		-0.06	0.04	6706.27	
AP2101	P				58.35		2.2576		5.611				179921.33
		1.779	0.01	0.73		1602.04		1573.61		-0.04	0.04	1573.61	
884382	K				58.39		2.2579		5.601				181494.93

1	2	3	4	5	6	7	8	9	10	11	12	13	14
884382	K				58.39		2.2579		5.601				181494.93
		0.049	0.04	0.12		7756.98		7619.35		0.00	0.00	7619.35	
95325	K				58.39		2.2564		5.601				189114.28
		1.237	-0.13	0.50		-7052.68		-6927.54		0.03	0.03	-6927.48	
884381	M				58.36		2.2579		5.607				182186.80
		1.772	-0.14	1.01		-17333.24		-17025.73		0.05	0.04	-17025.64	
95324	S				58.33		2.2601		5.619				165161.15
		2.815	0.07	0.03		17156.69		16852.33		-0.01	0.06	16852.38	
53107	M				58.41		2.2588		5.616				182013.52
		2.435	-0.02	0.28		1370.06		1345.75		-0.01	0.05	1345.79	
95323	M				58.48		2.2596		5.614				183359.31
		0.849	-0.12	0.29		-11175.46		-10977.21		-0.02	0.02	-10977.21	
95322	S				58.50		2.2621		5.610				172382.10
		3.029	0.44	0.07		7082.77		6957.15		-0.02	0.06	6957.19	
95318	S				58.60		2.2648		5.605				179339.29
		2.716	-0.20	0.85		42456.54		41703.46		-0.02	0.06	41703.50	
53104	M				58.69		2.2600		5.600				221042.79
		2.167	0.19	1.73		1894.66		1861.05		-0.01	0.04	1861.08	
53103	M				58.76		2.2593		5.599				222903.87
		2.155	-0.76	-0.02		-3469.99		-3408.43		-0.06	0.04	-3408.45	
53102	M				58.78		2.2606		5.585				219495.42
		1.296	0.63	0.52		25201.92		24754.79		-0.04	0.03	24754.78	
95320	K				58.77		2.2561		5.576				244250.20
		1.674	0.15	0.45		26355.68		25887.97		-0.02	0.03	25887.98	
95321	K				58.80		2.2516		5.572				270138.18
		0.808	0.14	-0.04		3496.27		3434.21		-0.01	0.02	3434.22	
53101	M				58.78		2.2506		5.571				273572.40
		2.411	-0.93	-0.21		-42611.99		-41855.83		-0.07	0.05	-41855.85	
53434	M				58.81		2.2589		5.556				231716.55
		1.575	-0.19	-0.32		-3920.91		-3851.35		-0.05	0.03	-3851.37	
53433	M				58.81		2.2596		5.545				227865.18
		1.817	0.01	-1.36		16978.04		16676.81		-0.06	0.04	16676.79	
95319	M				58.81		2.2563		5.532				244541.97
		0.968	-0.21	0.80		-10580.93		-10393.20		-0.02	0.02	-10393.20	
95317	K				58.83		2.2585		5.526				234148.76
		1.286	-0.09	-0.23		-23243.12		-22830.81		-0.03	0.03	-22830.81	
53432	M				58.84		2.2632		5.519				211317.95
		2.178	-0.21	-0.31		3648.81		3584.09		-0.06	0.04	3584.07	
53431	M				58.86		2.2632		5.505				214902.03
		1.737	0.16	0.38		3131.82		3076.27		-0.05	0.04	3076.26	
53430	M				58.88		2.2629		5.494				217978.27
		0.790	0.07	0.04		-13097.29		-12865.01		-0.01	0.02	-12865.00	
53436	K				58.87		2.2658		5.492				205113.28
		66.157	-2.07	7.59		61334.55		60245.91		-1.45	1.36	60245.82	

51 F KOITILA-TAVELA (TEMPERATURE GRAD. PREDICTION) 1995.45

53436	K				58.87		2.2658		5.492				205113.28
		0.037	0.00	0.17		-67.01		-65.82		0.00	0.00	-65.82	
53437	K				58.87		2.2658		5.492				205047.46
		0.012	0.00	-0.50		88.57		87.00		0.00	0.00	87.00	
53435	K				58.87		2.2658		5.492				205134.46
		0.351	0.04	0.74		14132.16		13881.52		0.00	0.01	13881.53	
AP0111	M				58.88		2.2632		5.492				219015.99
		1.216	-0.09	-0.69		-7789.06		-7650.92		-0.03	0.02	-7650.93	
53429	M				58.91		2.2653		5.486				211365.05
		1.356	0.23	0.37		-3472.00		-3410.43		-0.04	0.03	-3410.44	
53428	M				58.91		2.2657		5.477				207954.61
		1.244	-0.07	0.82		-1835.00		-1802.46		-0.03	0.03	-1802.46	
53427	M				58.91		2.2655		5.470				206152.15
		1.335	0.30	-0.64		5894.98		5790.43		-0.03	0.03	5790.43	
53426	M				58.94		2.2641		5.463				211942.57
		1.756	0.28	-0.43		5488.16		5390.82		-0.03	0.04	5390.83	
53425	M				58.98		2.2645		5.457				217333.40
		2.106	0.43	-0.26		21263.51		20886.33		-0.03	0.04	20886.34	
95306	M				59.03		2.2585		5.450				238219.74

1	2	3	4	5	6	7	8	9	10	11	12	13	14
95306	M				59.03		2.2585		5.450				238219.74
		0.636	-0.01	0.26		-1593.87		-1565.59		-0.01	0.01	-1565.59	
53424	M				59.05		2.2589		5.448				236654.15
		1.542	0.03	0.77		1278.06		1255.39		-0.01	0.03	1255.41	
95307	M				59.08		2.2601		5.446				237909.56
		1.562	0.05	1.21		-5215.90		-5123.38		-0.02	0.03	-5123.37	
95308	S				59.12		2.2631		5.442				232786.21
		1.203	0.23	-0.49		18456.65		18129.28		-0.01	0.02	18129.29	
53422	M				59.16		2.2625		5.439				250915.49
		1.843	0.28	-0.07		-963.66		-946.57		-0.02	0.04	-946.55	
95309	K				59.21		2.2687		5.435				249968.94
		1.249	0.09	0.20		-9333.58		-9168.10		-0.02	0.03	-9168.09	
53420	M				59.24		2.2735		5.431				240800.84
		1.996	0.02	-3.36		-1570.22		-1542.39		-0.05	0.04	-1542.40	
53419	M				59.24		2.2771		5.419				239258.45
		2.474	0.14	0.28		2553.06		2507.81		-0.05	0.05	2507.81	
53418	M				59.28		2.2805		5.409				241766.26
		0.999	0.21	0.00		14405.42		14150.15		-0.01	0.02	14150.16	
95310	K				59.31		2.2769		5.406				255916.42
		0.851	-0.37	1.54		-13496.52		-13257.33		-0.01	0.02	-13257.32	
53417	M				59.32		2.2779		5.404				242659.09
		0.963	0.65	2.03		10003.23		9825.94		0.00	0.02	9825.96	
95311	M				59.35		2.2751		5.403				252485.05
		1.767	-0.06	1.93		538.53		528.98		-0.01	0.04	529.01	
95312	K				59.40		2.2684		5.400				253014.06
		1.496	0.13	1.46		15040.41		14773.69		-0.03	0.03	14773.69	
95313	K				59.43		2.2653		5.394				267787.75
		2.404	0.14	2.42		-1125.47		-1105.51		-0.05	0.05	-1105.51	
53415	M				59.47		2.2623		5.384				266682.24
		1.466	0.10	0.00		832.52		817.75		-0.02	0.03	817.76	
53413	K				59.51		2.2614		5.380				267500.00
		1.758	0.12	-1.37		-722.58		-709.76		-0.01	0.04	-709.73	
95314	M				59.56		2.2615		5.378				266790.26
		1.829	0.35	0.95		8346.31		8198.25		-0.02	0.04	8198.27	
53411	M				59.61		2.2604		5.374				274988.54
		1.306	-0.07	1.57		8483.74		8333.23		-0.02	0.03	8333.24	
95315	M				59.62		2.2593		5.369				283321.77
		1.240	-0.04	0.98		-5996.65		-5890.27		-0.02	0.03	-5890.26	
53410	M				59.65		2.2612		5.364				277431.50
		1.754	-0.12	-0.57		1673.11		1643.43		-0.03	0.04	1643.44	
53409	M				59.68		2.2591		5.357				279074.94
		1.865	-0.16	-2.05		17051.98		16749.44		-0.04	0.04	16749.44	
53408	M				59.69		2.2558		5.348				295824.37
		1.814	0.03	0.11		-8315.06		-8167.53		-0.01	0.04	-8167.50	
53407	M				59.73		2.2580		5.345				287656.88
		0.910	-0.15	-0.18		-1329.66		-1306.07		0.00	0.02	-1306.05	
95316	K				59.76		2.2590		5.345				286350.83
		44.340	2.71	7.20		82704.15		81237.31		-0.66	0.94	81237.59	

51 G TAVELA-KUUSAMO (TEMPERATURE GRAD. PREDICTION) 1995.69

95316	K				59.76		2.2590		5.345				286350.83
		1.700	0.11	1.59		21676.51		21291.92		-0.02	0.03	21291.93	
53406	K				59.80		2.2564		5.342				307642.76
		1.740	-0.01	-1.46		6998.96		6874.77		-0.03	0.04	6874.78	
53405	K				59.83		2.2558		5.336				314517.54
		1.388	0.13	0.25		25215.67		24768.17		-0.01	0.03	24768.19	
95326	K				59.87		2.2507		5.334				339285.73
		0.695	0.17	0.04		22056.32		21664.79		-0.01	0.01	21664.79	
53404	M				59.87		2.2462		5.330				360950.52
		1.600	0.16	-1.11		-23397.28		-22981.95		-0.01	0.03	-22981.93	
53403	K				59.92		2.2511		5.327				337968.58
		2.719	-0.04	-0.48		-44372.53		-43585.18		0.00	0.06	-43585.12	
53402	K				60.00		2.2608		5.326				294383.46
		1.402	0.03	0.24		7497.17		7364.17		-0.01	0.03	7364.19	
53401	K				60.03		2.2600		5.323				301747.66

1	2	3	4	5	6	7	8	9	10	11	12	13	14
53401	K				60.03		2.2600		5.323				301747.66
		0.848	-0.05	-0.14		-33641.41		-33044.73		-0.01	0.02	-33044.72	
50050	K				60.05		2.2670		5.320				268702.92
		1.442	-0.03	0.61		-4003.44		-3932.45		-0.02	0.03	-3932.44	
784341	M				60.06		2.2691		5.316				264770.48
		0.092	0.00	0.10		-201.40		-197.83		0.00	0.00	-197.83	
921603	M				60.06		2.2690		5.316				264572.66
		1.252	0.01	0.01		10225.40		10044.09		-0.02	0.03	10044.10	
50048	M				60.06		2.2676		5.311				274616.75
		0.483	-0.11	0.22		-8508.64		-8357.77		0.00	0.01	-8357.76	
95327	K				60.07		2.2694		5.310				266258.99
		0.552	-0.04	0.31		-4529.85		-4449.53		0.00	-0.28	-4449.81	
95328	K				60.08		2.2704		5.311				261809.18
		0.011	0.00	-0.13		2279.88		2239.46		0.00	0.00	2239.46	
95225	K				60.08		2.2699		5.311				264048.64
		15.924	0.33	0.05		-22704.65		-22302.08		-0.14	0.04	-22302.18	

52.1 A KONTIOMÄKI-LAAJA 1993.62

48117	K				53.83		2.1797		5.130				171028.02
		1.875	-0.19	-1.32		-15355.27		-15081.66		0.05	-0.03	-15081.64	
49001	S				53.89		2.1833		5.138				155946.38
		1.657	0.00	-1.00		13768.22		13522.91		0.02	-0.02	13522.91	
93109	K				53.94		2.1814		5.141				169469.28
		0.965	0.00	0.35		3647.35		3582.35		0.01	-0.01	3582.35	
58099	M				53.98		2.1807		5.144				173051.62
		1.325	-0.07	-0.95		7376.33		7244.88		0.03	-0.02	7244.89	
93108	R				54.02		2.1795		5.148				180296.52
		1.142	-0.08	0.02		8886.09		8727.73		0.03	-0.02	8727.74	
49003	M				54.06		2.1784		5.152				189024.26
		1.870	-0.30	-2.70		-10364.95		-10180.25		0.05	-0.03	-10180.23	
49004	M				54.13		2.1806		5.159				178844.04
		0.934	0.13	-0.88		1810.97		1778.69		0.02	-0.01	1778.70	
93110	K				54.16		2.1802		5.163				180622.73
		0.747	0.06	-0.61		-8575.85		-8423.04		0.02	-0.01	-8423.03	
49005	K				54.18		2.1823		5.166				172199.71
		2.307	0.25	-0.30		-16977.62		-16675.14		0.06	-0.03	-16675.11	
49006	K				54.26		2.1849		5.176				155524.60
		1.507	0.06	0.27		-6859.19		-6737.00		0.03	-0.02	-6736.99	
49007	K				54.32		2.1868		5.182				148787.59
		0.030	0.00	0.10		378.89		372.14		0.00	0.00	372.14	
93111	K				54.32		2.1867		5.182				149159.73
		2.346	-0.58	-0.05		-4859.52		-4772.96		-0.03	-0.03	-4773.02	
49008	M				54.38		2.1885		5.177				144386.72
		1.673	-0.14	0.44		-375.01		-368.33		-0.02	-0.02	-368.37	
49009	M				54.42		2.1906		5.174				144018.33
		1.215	0.26	-0.64		5312.02		5217.42		-0.06	-0.02	5217.34	
49010	M				54.43		2.1902		5.165				149235.68
		0.878	0.12	0.09		3728.25		3661.86		-0.04	-0.01	3661.81	
93112	M				54.43		2.1896		5.159				152897.48
		1.472	0.00	0.24		2768.16		2718.86		-0.05	-0.02	2718.79	
49011	K				54.46		2.1894		5.151				155616.26
		1.576	0.26	-2.48		12964.56		12733.64		-0.04	-0.02	12733.58	
49012	K				54.49		2.1873		5.145				168349.84
		1.943	-0.20	-2.21		-13540.71		-13299.54		-0.03	-0.03	-13299.60	
49013	K				54.53		2.1905		5.140				155050.25
		1.343	-1.02	0.72		-8765.69		-8609.59		0.05	-0.02	-8609.56	
93113	M				54.58		2.1931		5.147				146440.69
		1.122	-0.02	-1.95		328.99		323.13		0.05	-0.02	323.16	
49014	K				54.61		2.1945		5.155				146763.85
		1.987	-0.08	-2.95		-1733.94		-1703.07		0.02	-0.03	-1703.08	
49015	K				54.68		2.1953		5.158				145060.77
		1.459	-0.13	-1.74		-1750.54		-1719.37		0.01	-0.02	-1719.38	
49016	M				54.73		2.1965		5.159				143341.40
		2.441	1.14	-1.92		10886.25		10692.44		-0.01	-0.04	10692.39	
844191	M				54.80		2.1962		5.158				154033.79

1	2	3	4	5	6	7	8	9	10	11	12	13	14
844191	M				54.80		2.1962		5.158				154033.79
		1.407	0.54	-1.47		13331.61		13094.25		-0.01	-0.02	13094.22	
49017	K				54.84		2.1949		5.156				167128.01
		2.834	0.51	-0.88		24711.68		24271.64		-0.02	-0.04	24271.58	
49018	K				54.92		2.1914		5.154				191399.58
		2.160	-0.66	-1.67		-18155.33		-17832.05		-0.02	-0.03	-17832.10	
49019	M				54.98		2.1955		5.151				173567.48
		0.861	-0.13	-0.31		-2511.82		-2467.10		0.01	-0.01	-2467.10	
93114	M				55.01		2.1964		5.152				171100.38
		3.387	-0.21	-1.77		-6400.72		-6286.78		0.05	-0.05	-6286.78	
49020	S				55.13		2.2009		5.160				164813.60
		1.223	0.06	-0.21		3612.47		3548.16		0.00	-0.02	3548.14	
49021	P				55.17		2.1993		5.161				168361.74
		1.926	-0.46	-1.96		-9048.48		-8887.43		0.01	-0.03	-8887.45	
93115	S				55.23		2.2033		5.162				159474.29
		1.700	0.08	0.12		2135.96		2097.96		0.01	-0.03	2097.94	
49023	K				55.28		2.2053		5.164				161572.24
		1.866	0.24	-3.39		8892.82		8734.58		0.02	-0.03	8734.57	
49024	K				55.35		2.2052		5.168				170306.80
		2.387	0.12	-2.51		778.31		764.46		0.05	-0.04	764.47	
49025	K				55.43		2.2080		5.176				171071.28
		1.940	0.32	-0.75		19036.63		18697.90		0.00	-0.03	18697.87	
49026	K				55.49		2.2057		5.176				189769.15
		1.018	-0.23	-0.42		-4370.09		-4292.33		0.01	-0.01	-4292.33	
AP8	M				55.52		2.2068		5.177				185476.81
		1.256	-0.21	0.04		-5517.74		-5419.57		0.04	-0.02	-5419.55	
49027	M				55.57		2.2080		5.183				180057.26
		2.244	-0.13	-1.41		3923.66		3853.85		0.05	-0.03	3853.87	
49028	K				55.64		2.2078		5.191				183911.12
		1.063	-0.07	-0.73		3048.81		2994.56		0.01	-0.02	2994.55	
93116	M				55.67		2.2076		5.193				186905.69
		1.247	0.00	-2.22		554.49		544.62		0.02	-0.02	544.62	
49029	M				55.71		2.2079		5.196				187450.31
		1.868	-0.01	-1.92		3930.98		3861.04		0.02	-0.03	3861.03	
49030	M				55.78		2.2082		5.199				191311.33
		0.861	-0.05	0.56		-4232.53		-4157.23		-0.02	-0.01	-4157.26	
93126	K				55.79		2.2094		5.195				187154.07
		0.013	0.00	0.05		-161.34		-158.47		0.00	0.00	-158.47	
93127	K				55.79		2.2094		5.195				186995.60
		65.075	-0.82	-40.32		16257.15		15968.14		0.40	-0.95	15967.59	

52.1 B LAAJA-ÄMMÄNSAARI 1994.39

93127	K				55.79		2.2094		5.195				186995.60
		1.792	0.94	-0.92		32555.41		31976.14		-0.06	-0.03	31976.05	
49031	M				55.81		2.2037		5.185				218971.66
		1.270	-0.73	-0.24		-17833.82		-17516.48		-0.05	-0.02	-17516.55	
93118	M				55.82		2.2077		5.176				201455.11
		1.250	0.10	0.85		2478.34		2434.25		-0.06	-0.02	2434.17	
93119	M				55.82		2.2083		5.165				203889.29
		0.864	0.19	0.30		3748.21		3681.52		-0.03	-0.01	3681.48	
93120	M				55.83		2.2078		5.160				207570.76
		0.824	0.29	-0.15		12828.46		12600.21		-0.03	-0.01	12600.17	
93121	M				55.83		2.2055		5.154				220170.93
		2.016	-0.70	0.98		-30733.53		-30186.77		-0.09	-0.03	-30186.89	
93124	M				55.84		2.2135		5.139				189984.03
		1.476	0.83	1.39		50543.43		49644.22		-0.06	-0.02	49644.14	
93125	M				55.83		2.2045		5.127				239628.18
		1.468	-0.66	-0.27		-35230.81		-34604.01		-0.05	-0.02	-34604.08	
93128	K				55.85		2.2126		5.119				205024.10
		1.116	0.03	-1.07		3105.97		3050.73		-0.04	-0.02	3050.67	
93117	K				55.86		2.2126		5.112				208074.77
		0.514	0.05	-0.37		6444.33		6329.70		-0.01	-0.01	6329.68	
94301	K				55.87		2.2118		5.109				214404.45
		0.986	-0.18	-0.95		-7046.55		-6921.21		-0.02	-0.01	-6921.24	
93122	M				55.89		2.2142		5.106				207483.21

1	2	3	4	5	6	7	8	9	10	11	12	13	14
93122	M				55.89		2.2142		5.106				207483.21
		0.982	-0.94	-1.63		-21355.33		-20975.56		-0.02	-0.01	-20975.59	
93123	M				55.90		2.2188		5.102				186507.62
		3.208	0.15	-0.36		19502.28		19155.49		-0.07	-0.05	19155.37	
94302	P				55.96		2.2175		5.089				205663.00
		0.874	-0.09	0.17		-7946.28		-7804.99		-0.03	-0.01	-7805.03	
93302	K				55.96		2.2191		5.083				197857.96
		0.012	0.00	-0.04		264.33		259.63		0.00	0.00	259.63	
49038	K				55.96		2.2190		5.083				198117.59
		18.652	-0.72	-2.31		11324.46		11122.89		-0.62	-0.27	11122.00	

52.2 ÄMMÄNSAARI-HALLASENAHO 1994.63

49038	K				55.96		2.2190		5.083				198117.59
		0.012	0.00	-0.04		-264.33		-259.63		0.00	0.00	-259.63	
93302	K				55.96		2.2191		5.083				197857.96
		1.370	-0.02	-0.16		8061.95		7918.59		0.06	0.01	7918.66	
94304	M				55.98		2.2176		5.094				205776.63
		0.814	0.00	1.83		979.38		961.96		0.03	0.01	962.00	
94305	P				55.99		2.2172		5.099				206738.63
		3.548	0.32	1.19		3929.47		3859.60		0.14	0.04	3859.78	
49039	K				56.04		2.2155		5.126				210598.40
		2.050	0.03	1.92		-10106.77		-9927.03		0.08	0.02	-9926.93	
94306	K				56.10		2.2174		5.141				200671.47
		0.886	1.01	1.45		30657.00		30111.75		0.03	0.01	30111.79	
94307	K				56.12		2.2115		5.147				230783.26
		0.117	0.11	-0.11		2026.50		1990.45		0.00	0.00	1990.45	
94308	K				56.13		2.2112		5.147				232773.70
		1.572	-0.19	-1.27		-9088.74		-8927.07		0.01	0.02	-8927.04	
94309	K				56.18		2.2143		5.148				223846.66
		1.320	-0.28	1.18		-10510.59		-10323.67		0.00	0.01	-10323.66	
49041	K				56.18		2.2166		5.148				213523.01
		0.574	0.03	-0.77		-13146.88		-12913.10		0.02	0.01	-12913.07	
94310	M				56.20		2.2192		5.151				200609.94
		2.127	0.09	3.90		2560.92		2515.38		0.03	0.02	2515.43	
49042	M				56.27		2.2183		5.158				203125.37
		2.349	1.08	0.51		26971.18		26491.51		0.03	0.03	26491.57	
663151	K				56.35		2.2132		5.163				229616.93
		2.345	-0.58	1.43		-19895.83		-19542.00		0.01	0.03	-19541.96	
94311	M				56.42		2.2184		5.164				210074.97
		1.763	-0.10	0.83		65.63		64.46		-0.05	0.02	64.43	
94312	K				56.44		2.2200		5.154				210139.40
		1.235	0.57	-0.68		26281.48		25814.15		-0.02	0.01	25814.14	
94313	K				56.46		2.2157		5.150				235953.54
		0.786	0.19	-0.38		12237.37		12019.72		-0.01	0.01	12019.72	
94314	M				56.48		2.2136		5.149				247973.26
		0.700	-0.35	-0.29		-21479.81		-21097.81		-0.01	0.01	-21097.81	
49048	K				56.46		2.2175		5.146				226875.45
		2.282	0.07	-0.62		5307.48		5213.11		0.05	0.02	5213.18	
49049	K				56.54		2.2170		5.155				232088.62
		3.485	0.78	-0.01		26683.34		26208.78		0.05	0.04	26208.87	
94315	M				56.66		2.2130		5.165				258297.50
		1.229	0.14	-1.11		-4877.86		-4791.10		0.02	0.01	-4791.07	
94316	K				56.70		2.2148		5.168				253506.43
		0.742	-0.01	0.16		1044.39		1025.82		0.01	0.01	1025.84	
94317	M				56.72		2.2151		5.171				254532.27
		1.084	-0.08	-1.98		-304.12		-298.71		0.02	0.01	-298.68	
49051	M				56.76		2.2165		5.176				254233.60
		1.025	0.02	-0.73		3336.84		3277.50		0.01	0.01	3277.52	
94318	M				56.79		2.2174		5.177				257511.12
		1.499	-0.47	-0.50		-8309.21		-8161.47		0.01	0.02	-8161.44	
94319	K				56.83		2.2212		5.179				249349.68
		0.446	-0.06	-0.06		-4859.46		-4773.06		0.00	0.00	-4773.06	
94320	K				56.85		2.2225		5.178				244576.62
		0.671	0.02	0.71		-8532.97		-8381.28		0.00	0.01	-8381.27	
49052	K				56.87		2.2246		5.179				236195.35

1	2	3	4	5	6	7	8	9	10	11	12	13	14
49052	K				56.87		2.2246		5.179				236195.35
		1.123	0.07	0.57		-4276.80		-4200.79		0.00	0.01	-4200.78	
94321	M				56.90		2.2263		5.179				231994.57
		1.160	0.00	-1.51		-6392.42		-6278.81		0.01	0.01	-6278.79	
94322	S				56.94		2.2290		5.182				225715.78
		0.574	0.02	0.09		2991.08		2937.93		0.01	0.01	2937.95	
49053	K				56.94		2.2284		5.184				228653.73
		1.380	0.27	-0.42		15394.13		15120.55		0.01	0.02	15120.58	
94323	M				56.98		2.2272		5.186				243774.30
		1.540	-0.13	-0.52		16787.84		16489.46		0.02	0.02	16489.50	
94324	K				57.03		2.2253		5.190				260263.80
		0.571	-0.02	0.05		-3701.54		-3635.74		0.00	0.01	-3635.73	
826221	K				57.05		2.2263		5.190				256628.06
		1.604	-0.08	-0.06		-4033.49		-3961.81		0.01	0.02	-3961.78	
826222	K				57.10		2.2284		5.192				252666.28
		1.541	0.31	-1.80		21797.46		21410.06		0.00	0.02	21410.08	
94325	K				57.15		2.2258		5.191				274076.36
		1.242	0.11	-0.30		-21847.96		-21459.70		-0.01	0.01	-21459.70	
94326	K				57.18		2.2317		5.190				252616.66
		1.116	0.43	-0.46		-23086.31		-22676.16		-0.01	0.01	-22676.16	
94327	M				57.21		2.2366		5.188				229940.50
		1.184	0.23	-1.35		19680.59		19330.96		0.03	-0.22	19330.77	
49056	K				57.22		2.2328		5.193				249271.27
		0.162	-0.13	-0.11		-11012.27		-10816.63		0.00	-0.03	-10816.66	
49057	K				57.22		2.2350		5.193				238454.62
		49.228	3.40	0.58		41066.67		40336.16		0.59	0.28	40337.03	

52.3 A HALLASENAHO-PISTO 1994.74

49057	K				57.22		2.2350		5.193				238454.62
		2.903	-0.47	-0.86		-91.53		-89.90		-0.02	0.83	-89.09	
50005	K				57.27		2.2362		5.190				238365.53
		2.045	-0.03	-1.22		15079.80		14811.91		0.02	0.02	14811.95	
59248	K				57.33		2.2340		5.193				253177.49
		0.884	0.09	0.40		11421.47		11218.55		0.03	0.01	11218.59	
94341	K				57.36		2.2316		5.198				264396.08
		0.623	-0.03	-0.40		10117.76		9937.97		0.01	0.01	9937.99	
50007	K				57.38		2.2298		5.201				274334.06
		1.452	-0.11	-0.24		717.41		704.66		0.02	0.02	704.70	
94328	K				57.42		2.2303		5.205				275038.76
		0.988	0.20	-0.60		-19555.95		-19208.48		-0.01	0.01	-19208.48	
94329	M				57.45		2.2343		5.203				255830.28
		0.911	0.03	-0.11		57.21		56.20		-0.01	0.01	56.20	
94330	M				57.47		2.2342		5.201				255886.48
		1.250	-0.26	0.16		17501.63		17190.68		-0.01	0.01	17190.68	
94331	K				57.51		2.2305		5.199				273077.15
		0.818	0.02	-0.34		-5669.73		-5568.98		0.00	0.01	-5568.97	
94332	M				57.53		2.2316		5.199				267508.18
		0.953	-0.19	-1.02		-21136.51		-20761.00		0.00	0.01	-20760.99	
50009	M				57.56		2.2361		5.200				246747.19
		1.075	0.23	-0.78		3413.69		3353.05		0.01	0.01	3353.07	
94333	M				57.60		2.2359		5.202				250100.26
		0.754	-0.11	-0.14		7507.37		7374.02		0.01	0.01	7374.04	
94334	M				57.62		2.2346		5.204				257474.30
		0.356	0.04	0.32		2634.84		2588.03		0.01	0.00	2588.04	
94335	K				57.63		2.2342		5.205				260062.35
		1.092	0.07	-0.23		-13301.01		-13064.73		0.03	0.01	-13064.69	
94336	S				57.67		2.2376		5.210				246997.65
		0.921	0.04	0.02		3742.31		3675.84		0.03	0.01	3675.88	
94337	M				57.70		2.2374		5.215				250673.53
		0.911	0.04	0.25		6134.94		6025.97		0.03	0.01	6026.01	
50011	K				57.72		2.2367		5.221				256699.54
		1.120	0.01	-1.03		-1869.12		-1835.92		0.01	0.01	-1835.90	
94338	M				57.74		2.2373		5.222				254863.65
		1.976	-0.01	0.31		5147.64		5056.20		0.05	0.02	5056.27	
94339	M				57.80		2.2377		5.231				259919.92

1	2	3	4	5	6	7	8	9	10	11	12	13	14
94339	M				57.80		2.2377		5.231				259919.92
		1.705	-0.60	0.30		10450.09		10264.46		0.02	0.02	10264.50	
94340	M				57.85		2.2362		5.235				270184.42
		0.962	-0.56	-0.41		13741.70		13497.58		0.00	0.01	13497.59	
50013	M				57.88		2.2338		5.236				283682.01
		0.874	0.74	0.05		-26149.84		-25685.34		0.01	0.01	-25685.32	
94129	M				57.91		2.2400		5.238				257996.69
		0.880	0.02	0.23		-215.16		-211.34		0.02	0.01	-211.31	
50014	M				57.92		2.2404		5.241				257785.38
		2.115	0.82	-1.27		-15721.67		-15442.48		0.00	0.02	-15442.46	
94130	M				57.98		2.2444		5.242				242342.92
		1.292	0.19	-0.90		-6494.56		-6379.25		0.01	0.01	-6379.23	
94131	M				58.03		2.2462		5.244				235963.69
		1.368	-0.29	0.66		10088.03		9908.92		0.02	0.01	9908.95	
50015	K				58.07		2.2449		5.249				245872.65
		30.228	-0.12	-6.85		7550.82		7416.61		0.29	1.11	7418.01	

52.3 B PISTO-KUUSAMO (TEMPERATURE GRAD. PREDICTION) 1995.61

50015	K				58.07		2.2449		5.249				245872.65
		0.018	-0.01	0.01		868.44		853.02		0.00	0.00	853.02	
94132	K				58.07		2.2448		5.249				246725.67
		0.928	0.00	-0.48		-2397.97		-2355.39		0.02	0.01	-2355.36	
94133	M				58.10		2.2458		5.253				244370.30
		1.543	-0.18	-1.07		14565.07		14306.47		0.04	0.02	14306.53	
50016	K				58.13		2.2441		5.262				258676.84
		1.865	-0.04	1.62		6527.76		6411.86		0.04	0.02	6411.92	
94134	K				58.16		2.2457		5.271				265088.76
		0.892	-0.42	-0.80		16062.83		15777.62		0.03	0.01	15777.66	
50017	K				58.18		2.2426		5.277				280866.42
		1.144	-0.34	-0.84		11524.06		11319.42		0.00	0.01	11319.43	
95111	M				58.21		2.2410		5.277				292185.85
		1.099	1.17	-0.20		-42895.54		-42133.94		0.02	0.01	-42133.91	
95112	M				58.25		2.2498		5.283				250051.93
		0.968	-0.07	0.22		420.02		412.56		0.02	0.01	412.59	
50018	K				58.28		2.2501		5.286				250464.52
		1.569	0.23	2.79		-28754.90		-28244.60		0.03	0.02	-28244.55	
95113	R				58.32		2.2564		5.293				222219.98
		1.403	0.38	0.05		7332.53		7202.42		0.03	0.02	7202.47	
95114	M				58.32		2.2554		5.300				229422.45
		1.426	-0.05	0.73		2592.45		2546.45		0.04	0.02	2546.51	
95115	M				58.32		2.2561		5.308				231968.95
		1.038	-0.01	0.71		10259.58		10077.52		0.02	0.01	10077.55	
95116	M				58.32		2.2545		5.313				242046.50
		1.411	0.07	2.17		288.83		283.71		0.02	0.02	283.75	
50019	K				58.34		2.2549		5.318				242330.26
		1.632	0.55	-0.93		-18750.83		-18418.14		0.00	0.02	-18418.12	
50020	K				58.40		2.2596		5.317				223912.13
		1.065	-0.51	0.32		19417.38		19072.87		0.00	0.01	19072.88	
95117	M				58.43		2.2555		5.316				242985.01
		1.402	-0.06	1.01		-2351.52		-2309.79		0.00	0.02	-2309.77	
95118	M				58.47		2.2538		5.316				240675.23
		2.262	0.11	-0.15		-4967.81		-4879.65		-0.01	0.02	-4879.64	
95119	M				58.54		2.2546		5.314				235795.60
		1.573	-0.29	-0.14		14215.80		13963.52		-0.02	0.02	13963.52	
50021	K				58.58		2.2516		5.311				249759.11
		0.060	0.04	0.22		-1909.84		-1875.95		0.00	0.00	-1875.95	
50022	K				58.58		2.2520		5.311				247883.16
		2.076	-0.10	-0.54		1066.13		1047.21		-0.01	0.02	1047.22	
50023	M				58.64		2.2518		5.308				248930.38
		1.902	-0.15	-1.21		-14428.60		-14172.54		-0.03	0.02	-14172.55	
95120	M				58.67		2.2544		5.301				234757.83
		1.181	-0.43	0.02		18259.19		17935.14		0.01	0.01	17935.16	
50024	M				58.71		2.2512		5.303				252692.99
		1.619	0.04	0.99		-12026.77		-11813.32		-0.02	0.02	-11813.32	
95121	M				58.74		2.2532		5.298				240879.67

1	2	3	4	5	6	7	8	9	10	11	12	13	14
95121	M				58.74		2.2532		5.298				240879.67
		1.062	0.04	-0.17		-4819.90		-4734.36		-0.02	0.01	-4734.37	
95122	S				58.76		2.2541		5.295				236145.30
		0.337	0.12	-0.63		-3087.57		-3032.78		0.01	0.00	-3032.77	
50025	M				58.77		2.2548		5.297				233112.54
		1.776	-0.26	-1.33		6747.82		6628.08		-0.03	0.02	6628.07	
AP10	P				58.78		2.2540		5.289				239740.60
		1.402	-0.09	-0.62		5591.64		5492.41		-0.02	0.02	5492.41	
50026	K				58.79		2.2530		5.284				245233.01
		1.621	0.02	0.29		-4582.27		-4500.95		-0.03	0.02	-4500.96	
95123	M				58.81		2.2539		5.276				240732.04
		1.324	0.11	-0.86		-5964.65		-5858.80		-0.03	0.01	-5858.82	
95124	S				58.82		2.2545		5.269				234873.22
		1.387	-0.02	-0.88		2539.32		2494.26		-0.02	0.02	2494.26	
50028	M				58.84		2.2543		5.264				237367.48
		1.930	0.33	2.13		-1800.85		-1768.90		0.01	0.02	-1768.87	
95125	S				58.89		2.2563		5.266				235598.62
		1.189	-0.23	-0.56		7291.56		7162.17		-0.03	0.01	7162.15	
95126	M				58.89		2.2543		5.259				242760.76
		0.954	-0.23	-0.37		5345.07		5250.21		-0.02	0.01	5250.20	
50030	K				58.89		2.2532		5.255				248010.97
		0.975	-0.29	-1.08		8097.93		7954.21		-0.01	0.01	7954.21	
95127	M				58.92		2.2525		5.253				255965.17
		1.107	-0.10	-0.14		3726.34		3660.21		0.00	0.01	3660.22	
50031	K				58.95		2.2530		5.253				259625.40
		1.415	0.64	0.93		-16336.57		-16046.68		-0.02	0.02	-16046.68	
95128	K				58.98		2.2574		5.248				243578.71
		1.427	0.01	-0.02		2385.26		2342.94		-0.03	0.02	2342.93	
50032	K				58.98		2.2572		5.242				245921.65
		1.938	0.09	-0.81		-6529.64		-6413.79		-0.03	0.02	-6413.80	
50033	K				58.99		2.2589		5.234				239507.85
		0.960	-0.38	-0.33		12178.16		11962.11		-0.01	0.01	11962.11	
95129	M				59.01		2.2586		5.232				251469.96
		1.491	0.14	0.07		-94.31		-92.64		-0.03	0.02	-92.65	
95130	M				59.02		2.2602		5.226				251377.30
		1.529	-0.70	-0.61		19512.37		19166.23		-0.02	0.02	19166.23	
95131	M				59.05		2.2605		5.221				270543.53
		0.903	0.51	-0.55		-15598.95		-15322.28		0.01	0.01	-15322.26	
95132	M				59.08		2.2661		5.223				255221.27
		2.372	0.08	1.65		-3332.44		-3273.36		0.01	0.03	-3273.32	
50036	K				59.16		2.2734		5.224				251947.95
		1.996	-0.05	-0.47		-3197.07		-3140.40		-0.02	0.02	-3140.40	
50037	M				59.20		2.2757		5.219				248807.55
		1.334	-0.26	0.16		9209.52		9046.26		0.00	0.01	9046.27	
95133	M				59.25		2.2698		5.219				257853.81
		1.203	0.41	-0.78		-12505.13		-12283.41		0.00	0.01	-12283.40	
95110	K				59.29		2.2696		5.220				245570.42
		0.029	0.00	-0.03		506.70		497.71		0.00	0.00	497.71	
50038	K				59.29		2.2695		5.220				246068.13
		1.366	-0.55	0.75		7125.04		6998.69		0.02	0.01	6998.72	
95102	M				59.32		2.2647		5.225				253066.86
		0.989	0.09	-0.69		-6420.94		-6307.06		0.00	0.01	-6307.05	
50039	M				59.35		2.2642		5.226				246759.81
		1.252	-0.16	0.11		4634.42		4552.22		0.00	0.01	4552.23	
95103	M				59.39		2.2628		5.226				251312.05
		1.963	-0.16	2.56		-2540.76		-2495.69		0.03	0.02	-2495.64	
50040	M				59.45		2.2605		5.232				248816.41
		1.866	-0.17	0.88		7564.37		7430.17		0.04	0.02	7430.23	
95104	M				59.46		2.2577		5.242				256246.64
		1.353	0.33	0.49		-6485.10		-6370.04		0.03	0.01	-6370.00	
95105	M				59.47		2.2599		5.248				249876.64
		1.951	0.06	0.45		647.92		636.43		0.04	0.02	636.49	
50042	M				59.49		2.2584		5.257				250513.13
		1.350	0.21	1.10		5463.26		5366.33		0.02	0.01	5366.36	
95106	M				59.52		2.2575		5.261				255879.50
		1.370	-0.46	-0.67		13489.76		13250.40		0.02	0.01	13250.43	
95107	M				59.55		2.2552		5.267				269129.93

1	2	3	4	5	6	7	8	9	10	11	12	13	14
95107	M				59.55		2.2552		5.267				269129.93
		1.289	0.30	-0.78		-10814.81		-10622.93		0.02	0.01	-10622.90	
50043	K				59.59		2.2599		5.271				258507.04
		1.499	0.09	0.01		9277.95		9113.35		0.01	0.02	9113.38	
95108	M				59.64		2.2583		5.273				267620.41
		0.975	0.14	-0.48		15642.83		15365.28		0.01	0.01	15365.30	
50044	K				59.67		2.2560		5.275				282985.71
		1.322	-0.05	-0.20		1033.15		1014.82		0.01	0.01	1014.84	
95109	M				59.71		2.2565		5.278				284000.56
		1.164	-0.34	-0.47		21686.15		21301.32		0.00	0.01	21301.33	
50045	K				59.75		2.2531		5.279				305301.89
		1.542	-0.13	0.34		-36582.77		-35933.69		0.02	0.02	-35933.65	
95134	M				59.80		2.2611		5.283				269368.25
		1.686	0.13	0.55		-10785.55		-10594.25		0.02	0.02	-10594.21	
95331	M				59.85		2.2643		5.288				258774.03
		1.566	-0.09	-0.84		5421.38		5325.23		0.01	0.02	5325.26	
50046	M				59.89		2.2637		5.291				264099.28
		1.887	0.09	-0.61		-2035.72		-1999.62		0.03	0.02	-1999.57	
95330	M				59.94		2.2663		5.298				262099.71
		2.000	0.00	0.06		-2016.38		-1980.63		0.01	0.02	-1980.60	
50047	M				59.99		2.2690		5.301				260119.12
		1.376	0.11	0.27		-8836.61		-8679.94		0.02	0.02	-8679.90	
95329	S				60.02		2.2718		5.306				251439.21
		1.843	0.06	-0.11		15087.23		14819.74		0.02	0.02	14819.78	
95327	K				60.07		2.2694		5.310				266258.99
		0.496	0.01	0.12		-4530.40		-4450.08		0.01	0.26	-4449.81	
95328	K				60.08		2.2704		5.311				261809.18
		0.011	0.00	-0.13		2279.88		2239.46		0.00	0.00	2239.46	
95225	K				60.08		2.2699		5.311				264048.64
		93.853	-0.67	2.20		18502.92		18174.42		0.29	1.27	18175.98	

53 A OULU-MYLLYKANGAS 1996.41

92406	K				56.48		2.2563		6.696				6198.44
		1.031	0.04	-0.29		-2929.66		-2877.68		0.01	-0.11	-2877.78	
92407	K				56.49		2.2571		6.699				3320.66
		0.983	-0.10	-0.30		11145.73		10947.97		0.01	-0.03	10947.95	
1322	P				56.51		2.2555		6.701				14268.61
		1.220	-0.18	-0.42		-4606.42		-4524.68		0.03	-0.04	-4524.69	
96201	R				56.54		2.2562		6.710				9743.92
		1.620	0.01	-1.73		-361.45		-355.04		0.03	-0.05	-355.06	
96202	S				56.59		2.2553		6.718				9388.86
		1.022	0.09	-0.48		4782.96		4698.09		0.01	-0.03	4698.07	
96203	P				56.62		2.2552		6.719				14086.93
		1.773	0.03	-0.99		-1541.34		-1513.99		0.02	-0.06	-1514.03	
61199	R				56.69		2.2565		6.723				12572.89
		1.218	-0.10	-1.43		-1065.60		-1046.69		0.01	-0.04	-1046.72	
62078	R				56.73		2.2573		6.726				11526.18
		2.052	-0.03	0.69		345.19		339.06		0.01	-0.06	339.01	
96204	R				56.80		2.2613		6.730				11865.18
		0.576	-0.01	-0.07		-246.21		-241.84		0.00	-0.02	-241.86	
62079	M				56.82		2.2606		6.731				11623.32
		1.224	-0.01	-0.86		-1276.60		-1253.96		0.01	-0.04	-1253.99	
96205	S				56.86		2.2619		6.733				10369.34
		2.051	0.04	0.18		-267.27		-262.53		0.00	-0.06	-262.59	
62080	M				56.93		2.2674		6.734				10106.74
		0.685	-0.13	0.01		35.82		35.19		0.00	-0.02	35.17	
61188	R				56.96		2.2686		6.734				10141.91
		0.844	0.07	-0.24		3695.20		3629.68		0.00	-0.03	3629.65	
96206	M				56.98		2.2684		6.734				13771.56
		1.362	-0.08	-1.51		-567.62		-557.56		0.01	-0.04	-557.59	
61186	R				57.03		2.2682		6.737				13213.97
		1.676	-0.09	-0.35		-301.08		-295.75		0.01	-0.05	-295.79	
61185	M				57.09		2.2717		6.739				12918.18
		1.868	-0.02	1.39		2547.13		2501.98		0.00	-0.06	2501.92	
62081	S				57.15		2.2741		6.740				15420.10

1	2	3	4	5	6	7	8	9	10	11	12	13	14
62081	S				57.15		2.2741		6.740				15420.10
		1.112	0.19	0.62		2865.42		2814.62		0.00	-0.03	2814.59	
62082	M				57.19		2.2737		6.741				18234.69
		2.046	-0.01	-1.66		2421.15		2378.24		-0.01	-0.06	2378.17	
96207	M				57.26		2.2762		6.738				20612.85
		0.866	0.01	0.38		1705.11		1674.89		-0.01	-0.03	1674.85	
62083	M				57.29		2.2762		6.736				22287.70
		1.184	0.00	0.57		-3609.00		-3545.04		-0.01	-0.04	-3545.09	
96208	M				57.33		2.2775		6.734				18742.62
		1.488	0.12	0.35		5899.97		5795.40		-0.01	-0.05	5795.34	
49103	M				57.38		2.2772		6.733				24537.96
		1.108	0.06	-0.39		-442.10		-434.27		0.00	-0.03	-434.30	
62084	R				57.42		2.2780		6.733				24103.66
		1.720	-0.01	-0.17		-3822.02		-3754.29		0.00	-0.05	-3754.34	
96209	R				57.48		2.2794		6.733				20349.31
		1.138	0.01	-0.78		-1970.05		-1935.14		0.00	-0.04	-1935.18	
62085	R				57.52		2.2798		6.732				18414.14
		1.792	-0.10	1.11		-1978.89		-1943.83		0.00	-0.06	-1943.89	
49104	M				57.58		2.2807		6.732				16470.25
		2.077	0.08	-0.13		4128.05		4054.90		-0.02	-0.06	4054.82	
49105	S				57.65		2.2802		6.727				20525.07
		2.630	0.05	0.12		-3757.73		-3691.15		0.00	-0.08	-3691.23	
49106	M				57.73		2.2832		6.726				16833.84
		1.800	-0.07	0.22		2332.21		2290.89		0.00	-0.06	2290.83	
62086	M				57.80		2.2837		6.727				19124.67
		0.042	0.02	0.15		-1840.90		-1808.29		0.00	0.00	-1808.29	
49107	M				57.80		2.2841		6.727				17316.38
		1.852	-0.09	0.07		-3367.68		-3308.02		0.00	-0.06	-3308.08	
1345	M				57.86		2.2852		6.728				14008.30
		2.417	0.03	-1.09		-2389.37		-2347.05		0.00	-0.08	-2347.13	
49108	M				57.94		2.2878		6.729				11661.17
		1.668	0.05	0.14		28.14		27.64		0.00	-0.05	27.59	
62087	K				58.00		2.2896		6.729				11688.76
		1.306	0.00	-0.10		-2269.48		-2229.29		-0.01	-0.04	-2229.34	
49109	R				58.04		2.2909		6.726				9459.43
		2.728	0.10	1.55		-575.58		-565.39		0.00	-0.09	-565.48	
1351	K				58.13		2.2912		6.726				8893.96
		1.500	0.03	0.85		-2009.62		-1974.03		0.00	-0.05	-1974.08	
55012	K				58.18		2.2924		6.726				6919.88
		1.364	0.06	-0.83		1006.18		988.36		0.00	-0.04	988.32	
1353	K				58.22		2.2929		6.727				7908.20
		1.494	-0.02	-1.10		-258.26		-253.69		0.02	-0.05	-253.72	
1354	K				58.25		2.2941		6.733				7654.48
		1.676	-0.07	0.39		2492.17		2448.05		0.01	-0.05	2448.01	
1355	K				58.30		2.2953		6.734				10102.49
		1.701	-0.02	1.56		3434.63		3373.82		0.01	-0.05	3373.78	
1356	K				58.36		2.2959		6.736				13476.26
		1.472	0.08	-0.81		7690.41		7554.26		0.01	-0.05	7554.22	
1357	K				58.40		2.2961		6.739				21030.48
		1.668	0.06	-0.31		-5926.04		-5821.14		0.01	-0.05	-5821.18	
1358	K				58.44		2.2995		6.742				15209.31
		61.054	0.09	-5.69		9175.48		9012.70		0.15	-1.99	9010.86	

53 B MYLLYKANGAS-KUIVANIEMI 1996.61

1358	K				58.44		2.2995		6.742				15209.31
		1.536	-0.06	-0.91		4302.47		4226.31		0.01	-0.05	4226.27	
1359	K				58.49		2.2996		6.745				19435.57
		1.192	0.17	0.47		-5747.69		-5645.96		0.00	-0.04	-5646.00	
1360	K				58.52		2.3011		6.746				13789.58
		1.376	-0.02	-0.30		-5685.14		-5584.52		0.00	-0.04	-5584.56	
49110	M				58.56		2.3030		6.747				8205.02
		2.682	-0.10	1.04		4726.75		4643.12		0.00	-0.08	4643.04	
49111	M				58.65		2.3039		6.746				12848.04
		1.476	0.00	-1.45		-803.08		-788.87		-0.01	-0.05	-788.93	
1363	M				58.70		2.3058		6.745				12059.12

1	2	3	4	5	6	7	8	9	10	11	12	13	14
1363	M				58.70		2.3058		6.745				12059.12
		1.261	0.14	1.29		3940.76		3871.04		0.01	-0.04	3871.01	
96210	K				58.72		2.3055		6.748				15930.13
		9.523	0.13	0.14		734.08		721.11		0.01	-0.30	720.82	

53 C KUIVANIEMI-KEMI 1996.65

96210	K				58.72		2.3055		6.748				15930.13
		1.400	0.10	1.14		1028.14		1009.95		0.01	-0.04	1009.92	
96211	R				58.76		2.3061		6.749				16940.05
		2.062	0.06	-1.11		6326.15		6214.21		0.01	-0.06	6214.16	
60187	M				58.82		2.3054		6.752				23154.20
		1.594	-0.21	1.16		2867.33		2816.59		0.01	-0.05	2816.55	
49112	M				58.86		2.3054		6.755				25970.75
		1.304	-0.15	-0.27		-1750.48		-1719.51		0.01	-0.04	-1719.54	
1368	K				58.90		2.3059		6.757				24251.21
		2.170	0.20	-0.52		-8386.30		-8237.92		0.01	-0.07	-8237.98	
1369	K				58.95		2.3082		6.761				16013.23
		0.034	0.00	0.15		453.90		445.87		0.00	0.00	445.87	
62088	K				58.95		2.3081		6.762				16459.10
		1.270	-0.02	0.92		-2323.93		-2282.82		0.02	-0.04	-2282.84	
96212	S				58.96		2.3087		6.768				14176.26
		1.526	0.01	0.12		-891.40		-875.63		0.03	-0.05	-875.65	
1371	K				58.97		2.3067		6.777				13300.61
		1.048	-0.03	-0.77		-3025.94		-2972.40		0.02	-0.03	-2972.41	
1372	K				58.97		2.3053		6.783				10328.21
		0.124	0.02	-0.23		3373.54		3313.85		0.00	0.00	3313.85	
62089	K				58.98		2.3045		6.783				13642.05
		1.651	-0.12	0.26		-3419.94		-3359.42		0.03	-0.05	-3359.44	
60188	M				58.99		2.3016		6.791				10282.62
		1.904	-0.13	-0.12		-2641.25		-2594.50		0.04	-0.06	-2594.52	
1374	K				59.01		2.3016		6.802				7688.10
		1.185	-0.08	-0.28		-129.36		-127.07		0.02	-0.04	-127.09	
1375	K				59.02		2.3010		6.809				7561.01
		1.720	0.00	0.01		2126.33		2088.70		0.03	-0.05	2088.68	
1376	K				59.02		2.2992		6.819				9649.70
		2.203	-0.08	0.05		3218.76		3161.80		0.04	-0.07	3161.77	
62090	K				59.03		2.2968		6.832				12811.46
		1.602	-0.21	0.34		-5558.33		-5459.93		0.03	-0.05	-5459.95	
1378	K				59.04		2.2969		6.841				7351.51
		1.681	-0.03	-0.04		8957.25		8798.67		0.03	-0.05	8798.65	
49114	M				59.06		2.2953		6.849				16150.15
		1.309	0.05	0.49		-246.83		-242.46		0.02	-0.04	-242.48	
96213	R				59.08		2.2954		6.855				15907.67
		2.236	0.08	-1.27		-7927.62		-7787.28		0.03	-0.07	-7787.32	
1381	K				59.12		2.2972		6.865				8120.35
		1.086	-0.01	-0.08		1629.88		1601.03		0.02	-0.03	1601.02	
178	K				59.13		2.2972		6.870				9721.38
		0.646	-0.05	-0.15		-3230.35		-3173.17		0.01	-0.02	-3173.18	
170	M				59.14		2.2980		6.873				6548.20
		1.628	0.05	-0.07		-1693.28		-1663.30		0.02	-0.05	-1663.33	
78015	M				59.17		2.2995		6.879				4884.87
		0.034	0.00	0.05		9.82		9.65		0.00	0.00	9.65	
1383	K				59.17		2.2996		6.879				4894.52
		31.417	-0.55	-0.22		-11233.89		-11035.07		0.44	-0.96	-11035.59	

54 KEMI-LAURILA 1996.67

1383	K				59.17		2.2996		6.879				4894.52
		0.424	0.03	0.47		-748.15		-734.91		0.01	-0.01	-734.91	
KKP89	P				59.18		2.3006		6.881				4159.61
		1.972	0.01	-0.95		-151.84		-149.15		0.02	-0.06	-149.19	
49115	R				59.22		2.3027		6.888				4010.41
		0.910	0.01	0.53		558.12		548.25		0.00	-0.03	548.22	
49116	P				59.25		2.3033		6.889				4558.64

1	2	3	4	5	6	7	8	9	10	11	12	13	14
49116	P				59.25		2.3033		6.889				4558.64
		0.998	-0.28	-0.70		7767.09		7629.64		-0.01	-0.03	7629.60	
55011	K				59.28		2.3036		6.887				12188.23
		1.196	0.05	-0.09		-3834.71		-3766.86		-0.01	-0.04	-3766.91	
73005	M				59.32		2.3081		6.885				8421.33
		1.630	0.00	-0.10		5908.12		5803.60		-0.01	-0.05	5803.54	
88102	S				59.38		2.3081		6.881				14224.86
		1.937	-0.04	0.33		-5708.61		-5607.62		-0.01	-0.06	-5607.69	
63011	K				59.44		2.3151		6.879				8617.17
		0.944	-0.08	-0.52		3658.60		3593.90		0.01	-0.03	3593.88	
63012	S				59.46		2.3146		6.883				12211.05
		1.575	-0.16	-0.84		3940.22		3870.54		0.00	-0.05	3870.49	
3133	M				59.50		2.3156		6.884				16081.54
		0.317	-0.14	0.00		2192.21		2153.44		-0.01	-0.01	2153.42	
3133A	K				59.50		2.3153		6.882				18234.97
		11.903	-0.60	-1.87		13581.05		13340.83		-0.01	-0.37	13340.45	

55 A LAURILA-TERVOLA 1996.70

3133A	K				59.50		2.3153		6.882				18234.97
		1.012	-0.11	0.50		5847.58		5744.17		-0.02	-0.07	5744.08	
63013	K				59.54		2.3146		6.876				23979.04
		0.600	-0.10	0.08		-7787.06		-7649.35		-0.01	-0.04	-7649.40	
63014	M				59.55		2.3161		6.874				16329.64
		1.934	0.05	-1.35		-1505.96		-1479.32		-0.03	-0.14	-1479.49	
3135	M				59.62		2.3156		6.865				14850.14
		2.039	-0.24	-1.11		5265.24		5172.13		-0.04	-0.14	5171.95	
88103	M				59.68		2.3165		6.853				20022.09
		2.490	0.03	0.53		4628.83		4546.98		-0.04	-0.18	4546.76	
88104	R				59.76		2.3187		6.840				24568.85
		1.773	-0.02	0.77		-315.50		-309.92		-0.03	-0.13	-310.08	
62065	M				59.82		2.3215		6.831				24258.78
		1.751	-0.01	0.78		-1345.68		-1321.89		-0.04	-0.12	-1322.05	
62066	M				59.85		2.3225		6.817				22936.72
		2.046	0.23	0.03		12027.93		11815.30		-0.04	-0.14	11815.12	
65021	M				59.91		2.3226		6.805				34751.84
		2.676	0.12	0.76		475.09		466.69		-0.05	-0.19	466.45	
63017	M				59.99		2.3265		6.789				35218.29
		2.148	0.05	-0.68		-114.44		-112.42		-0.04	-0.15	-112.61	
63018	M				60.06		2.3281		6.777				35105.68
		0.044	-0.01	0.00		807.04		792.78		0.00	0.00	792.78	
3142	M				60.06		2.3280		6.777				35898.45
		1.729	-0.22	0.15		-2338.22		-2296.91		-0.03	-0.12	-2297.06	
63019	M				60.11		2.3302		6.769				33601.40
		1.875	-0.02	-0.96		5726.79		5625.60		-0.03	-0.13	5625.44	
63020	M				60.18		2.3308		6.761				39226.83
		2.184	-0.06	-0.72		-8611.72		-8459.57		-0.04	-0.15	-8459.76	
63021	M				60.25		2.3343		6.749				30767.06
		1.424	-0.04	-1.47		282.98		277.99		-0.03	-0.10	277.86	
49127	K				60.29		2.3349		6.741				31044.92
		0.637	-0.10	-0.14		2003.09		1967.70		-0.01	-0.05	1967.64	
3146	M				60.31		2.3348		6.737				33012.57
		1.223	0.02	-0.02		951.83		935.02		-0.03	-0.09	934.90	
63022	M				60.35		2.3348		6.729				33947.46
		2.871	-0.07	-0.45		6913.28		6791.15		-0.06	-0.20	6790.89	
49126	K				60.44		2.3325		6.710				40738.35
		30.456	-0.50	-3.30		22911.09		22506.12		-0.57	-2.14	22503.41	

55 B TERVOLA-HIRVAS 1996.43

49126	K				60.44		2.3325		6.710				40738.35
		1.290	-0.10	-1.42		-3999.06		-3928.40		-0.03	-0.09	-3928.52	
49124	M				60.48		2.3320		6.700				36809.83
		1.711	-0.07	-0.06		-4121.69		-4048.87		-0.04	-0.12	-4049.03	
49125	S				60.53		2.3326		6.688				32760.81

1	2	3	4	5	6	7	8	9	10	11	12	13	14
49125	S				60.53		2.3326		6.688				32760.81
		1.065	0.08	-0.68		4184.66		4110.72		-0.03	-0.08	4110.61	
96102	S				60.57		2.3319		6.680				36871.41
		1.396	-0.01	-1.79		-2880.39		-2829.50		-0.04	-0.10	-2829.64	
49259	S				60.61		2.3310		6.669				34041.77
		1.532	0.05	-1.46		1412.16		1387.21		-0.05	-0.11	1387.05	
96103	M				60.65		2.3258		6.656				35428.82
		0.806	-0.10	-0.68		-1191.49		-1170.43		-0.02	-0.06	-1170.51	
78014	M				60.66		2.3255		6.649				34258.33
		1.902	-0.05	-2.75		-1830.24		-1797.90		-0.06	-0.13	-1798.09	
65018	S				60.69		2.3247		6.633				32460.23
		1.157	0.06	-0.88		2653.92		2607.00		-0.04	-0.08	2606.88	
96104	M				60.71		2.3227		6.622				35067.11
		1.365	0.13	-0.66		3151.60		3095.89		-0.04	-0.10	3095.75	
64005	M				60.74		2.3225		6.610				38162.86
		0.124	0.00	-0.08		925.92		909.56		0.00	-0.01	909.55	
96101	M				60.74		2.3224		6.609				39072.40
		1.543	-0.02	-0.62		-4843.48		-4757.86		-0.05	-0.11	-4758.02	
65019	S				60.76		2.3231		6.596				34314.40
		2.679	0.31	-0.35		2395.65		2353.30		-0.08	-0.19	2353.03	
65017	S				60.80		2.3227		6.573				36667.43
		0.008	-0.03	-0.15		1266.90		1244.50		0.00	0.00	1244.50	
3155	S				60.80		2.3225		6.573				37911.93
		2.054	-0.06	-1.52		1067.22		1048.35		-0.06	-0.15	1048.14	
96107	S				60.81		2.3248		6.558				38960.07
		1.388	0.22	-1.23		2265.75		2225.71		-0.04	-0.10	2225.57	
96106	M				60.82		2.3264		6.547				41185.64
		1.607	0.07	0.78		4610.63		4529.14		-0.05	-0.11	4528.98	
96105	S				60.83		2.3275		6.533				45714.62
		2.359	-0.05	-3.26		-2635.60		-2589.03		-0.07	-0.17	-2589.27	
96109	S				60.86		2.3299		6.514				43125.34
		1.504	-0.02	0.67		13926.37		13680.28		-0.03	-0.11	13680.14	
96108	K				60.88		2.3277		6.504				56805.48
		1.817	0.02	0.56		-4114.52		-4041.81		-0.03	-0.13	-4041.97	
63025	P				60.88		2.3282		6.495				52763.52
		1.364	0.03	-1.12		178.03		174.89		-0.04	-0.10	174.75	
3160	M				60.90		2.3288		6.483				52938.28
		1.424	0.03	-3.67		2166.42		2128.14		-0.04	-0.10	2128.00	
96110	R				60.94		2.3302		6.472				55066.28
		1.175	0.01	-2.63		923.98		907.65		-0.03	-0.08	907.54	
96111	R				60.98		2.3301		6.462				55973.81
		1.670	0.03	-2.39		1009.95		992.10		-0.05	-0.12	991.93	
49255	M				61.02		2.3295		6.449				56965.75
		1.680	0.06	-3.15		-535.30		-525.85		-0.05	-0.12	-526.02	
96112	M				61.07		2.3297		6.435				56439.73
		1.612	-0.03	-2.51		-1944.27		-1909.91		-0.05	-0.11	-1910.07	
96113	S				61.11		2.3285		6.422				54529.65
		1.954	0.16	-0.03		2033.66		1997.72		-0.05	-0.14	1997.53	
63026	M				61.17		2.3259		6.408				56527.19
		1.793	0.38	-1.68		5533.33		5435.54		-0.02	-0.13	5435.39	
3165	M				61.23		2.3276		6.404				61962.59
		1.618	0.22	-1.14		8783.68		8628.46		-0.03	-0.11	8628.32	
49253	M				61.28		2.3292		6.396				70590.89
		2.206	0.01	-2.53		-2104.80		-2067.62		-0.05	-0.16	-2067.83	
66016	R				61.35		2.3369		6.383				68523.07
		1.173	0.05	-0.03		4291.22		4215.43		-0.03	-0.08	4215.32	
96114	M				61.39		2.3400		6.376				72738.38
		1.091	0.00	1.84		724.23		711.44		-0.02	-0.08	711.34	
66015	R				61.43		2.3404		6.369				73449.73
		2.019	-0.11	-2.42		-455.88		-447.84		-0.03	-0.14	-448.01	
63027	M				61.49		2.3411		6.361				73001.72
		1.841	-0.14	-2.05		-10903.80		-10711.27		-0.04	-0.13	-10711.44	
66034	M				61.55		2.3444		6.349				62290.28
		1.989	0.52	-1.11		7780.19		7642.83		-0.05	-0.14	7642.64	
3171	M				61.61		2.3442		6.335				69932.92

1	2	3	4	5	6	7	8	9	10	11	12	13	14
3171	M				61.61		2.3442		6.335				69932.92
		2.154	-0.04	-0.84		-5568.85		-5470.54		-0.04	-0.15	-5470.73	
66014	S				61.68		2.3456		6.323				64462.19
		54.070	1.61	-41.04		24156.10		23729.05		-1.38	-3.84	23723.83	

55 C HIRVAS-ROVANIEMI 1996.64

66014	S				61.68		2.3456		6.323				64462.19
		1.106	0.03	-0.50		-992.80		-975.27		-0.02	-0.08	-975.37	
96115	M				61.71		2.3461		6.318				63486.83
		1.209	0.05	0.05		-2237.13		-2197.64		-0.03	-0.09	-2197.76	
62068	M				61.75		2.3469		6.309				61289.08
		2.224	0.53	-0.08		10164.37		9984.92		-0.05	-0.16	9984.71	
49249	M				61.82		2.3443		6.294				71273.79
		1.640	0.25	-0.69		3932.87		3863.43		-0.04	-0.12	3863.27	
96116	M				61.86		2.3444		6.283				75137.06
		1.036	0.33	-0.66		7318.02		7188.81		-0.02	-0.07	7188.72	
3175	M				61.87		2.3427		6.276				82325.78
		1.685	0.37	0.41		16022.30		15739.37		-0.03	-0.12	15739.22	
3176	M				61.91		2.3401		6.266				98065.01
		1.213	0.05	-0.77		1781.03		1749.58		-0.03	-0.09	1749.46	
96117	M				61.95		2.3400		6.258				99814.47
		1.528	-0.18	0.88		-5994.82		-5888.96		-0.04	-0.11	-5889.11	
96118	R				61.98		2.3421		6.247				93925.37
		1.320	0.37	-0.63		10430.18		10246.00		-0.03	-0.09	10245.88	
96119	M				62.01		2.3397		6.237				104171.23
		1.489	-0.32	0.29		-6669.62		-6551.84		-0.04	-0.11	-6551.99	
96120	M				62.04		2.3418		6.226				97619.25
		1.827	-0.37	-1.03		-11636.18		-11430.73		-0.05	-0.13	-11430.91	
49248	M				62.07		2.3450		6.212				86188.34
		2.376	-0.12	2.08		-4742.90		-4659.17		-0.05	-0.17	-4659.39	
49247	M				62.09		2.3464		6.196				81528.95
		1.590	-0.13	0.26		-1790.33		-1758.73		-0.03	-0.11	-1758.87	
96121	M				62.10		2.3468		6.186				79770.09
		0.797	-0.05	-1.21		-760.37		-746.95		-0.02	-0.06	-747.03	
96123	S				62.10		2.3458		6.181				79023.06
		2.145	0.25	1.65		3305.06		3246.71		-0.04	-0.15	3246.52	
63051	S				62.09		2.3458		6.170				82269.58
		0.394	-0.02	-0.20		4.89		4.80		-0.01	-0.03	4.76	
49245	S				62.10		2.3457		6.167				82274.33
		0.700	0.01	-0.88		-6023.52		-5917.17		-0.01	-0.05	-5917.23	
HT1916	K				62.12		2.3450		6.164				76357.11
		24.279	1.05	-1.03		12111.06		11897.17		-0.54	-1.74	11894.89	

56 A ROVANIEMI-VIKA 1996.74

HT1916	K				62.12		2.3450		6.164				76357.11
		0.018	-0.01	0.06		870.42		855.05		0.00	0.00	855.05	
49260	K				62.12		2.3449		6.164				77212.15
		2.340	-0.24	-0.57		7959.70		7819.17		-0.05	0.14	7819.26	
49244	S				62.15		2.3437		6.149				85031.42
		0.401	0.00	-0.18		-39.42		-38.72		-0.01	0.02	-38.71	
96122	S				62.16		2.3439		6.147				84992.72
		1.029	-0.11	0.50		-5883.38		-5779.51		-0.02	0.06	-5779.47	
66033	S				62.19		2.3456		6.139				79213.25
		1.761	0.20	-1.51		8171.53		8027.26		-0.04	0.11	8027.33	
49241	P				62.20		2.3443		6.129				87240.57
		1.445	-0.06	-0.32		-842.95		-828.07		-0.02	0.09	-828.00	
96126	S				62.19		2.3456		6.122				86412.58
		0.997	0.00	-1.84		3428.62		3368.09		-0.01	0.06	3368.14	
49240	M				62.17		2.3473		6.119				89780.72
		2.180	0.29	-0.39		4308.61		4232.55		-0.03	0.13	4232.65	
49239	M				62.15		2.3470		6.109				94013.37
		1.216	0.02	-1.02		1540.86		1513.66		-0.02	0.07	1513.71	
96124	M				62.15		2.3469		6.102				95527.08

1	2	3	4	5	6	7	8	9	10	11	12	13	14
96124	M				62.15		2.3469		6.102				95527.08
		1.473	0.19	-1.62		7246.48		7118.55		-0.03	0.09	7118.61	
49238	K				62.14		2.3456		6.093				102645.68
		1.878	0.11	-0.07		11775.47		11567.57		-0.04	0.11	11567.64	
49237	K				62.13		2.3437		6.082				114213.33
		1.943	0.07	0.77		-2056.41		-2020.10		-0.04	0.12	-2020.02	
49236	K				62.13		2.3440		6.069				112193.31
		1.424	-0.23	0.93		-12653.28		-12429.89		-0.04	0.09	-12429.84	
49235	K				62.14		2.3467		6.059				99763.47
		1.364	0.00	-1.26		7355.27		7225.42		-0.03	0.08	7225.47	
96127	M				62.15		2.3445		6.048				106988.94
		1.826	-0.06	-2.19		5545.14		5447.23		-0.05	0.11	5447.29	
87004	M				62.18		2.3420		6.034				112436.23
		1.352	-0.04	-0.85		10120.82		9942.09		-0.04	0.08	9942.13	
96125	M				62.20		2.3387		6.023				122378.36
		1.378	0.33	-0.88		12935.64		12707.15		-0.03	0.08	12707.20	
49232	K				62.21		2.3354		6.013				135085.56
		1.786	0.66	0.70		11709.49		11502.63		-0.03	0.11	11502.71	
49231	M				62.20		2.3327		6.002				146588.27
		2.040	-0.06	0.29		1356.70		1332.73		-0.05	0.12	1332.80	
66032	K				62.24		2.3325		5.986				147921.07
		1.463	0.25	0.64		4430.97		4352.68		-0.04	0.09	4352.73	
66031	M				62.27		2.3304		5.974				152273.80
		0.040	0.00	-0.40		482.55		474.02		0.00	0.00	474.02	
49229	M				62.27		2.3303		5.974				152747.82
		2.310	0.12	-0.75		14872.96		14610.13		-0.07	0.14	14610.20	
66030	K				62.32		2.3261		5.954				167358.02
		31.664	1.43	-9.96		92635.80		90999.71		-0.69	1.90	91000.92	

56 B VIKA-MISI 1996.67

66030	K				62.32		2.3261		5.954				167358.02
		1.880	-0.65	-0.46		-23351.12		-22938.47		-0.05	0.11	-22938.41	
49226	M				62.36		2.3309		5.939				144419.61
		1.468	-0.05	-0.44		-264.22		-259.55		-0.04	0.09	-259.50	
49225	S				62.39		2.3298		5.927				144160.11
		2.038	0.26	0.06		10628.05		10440.24		-0.06	0.12	10440.30	
96327	P				62.43		2.3277		5.910				154600.41
		2.457	0.08	-0.82		1783.62		1752.10		-0.06	0.15	1752.19	
49223	M				62.46		2.3279		5.891				156352.60
		2.096	-0.07	-1.45		-2869.71		-2819.00		-0.05	0.13	-2818.92	
49222	M				62.48		2.3290		5.875				153533.67
		2.088	0.68	-0.02		12675.72		12451.72		-0.05	0.13	12451.80	
66029	K				62.50		2.3268		5.859				165985.47
		0.006	0.00	0.02		-1940.24		-1905.95		0.00	0.00	-1905.95	
49221	K				62.50		2.3272		5.859				164079.52
		2.149	-0.15	-0.65		-6542.21		-6426.61		-0.05	0.13	-6426.53	
49220	M				62.52		2.3310		5.843				157652.99
		2.208	0.19	0.01		9053.69		8893.72		-0.05	0.13	8893.80	
49219	M				62.55		2.3310		5.827				166546.79
		0.071	-0.02	0.15		-743.56		-730.43		0.00	0.00	-730.43	
62070	P				62.55		2.3312		5.826				165816.36
		1.578	0.32	-1.40		10065.66		9887.81		-0.04	0.09	9887.86	
49218	K				62.56		2.3309		5.815				175704.23
		18.039	0.59	-5.00		8495.67		8345.58		-0.45	1.08	8346.21	

56 C MISI-HANHIKOSKI 1996.41

49218	K				62.56		2.3309		5.815				175704.23
		2.255	0.13	-0.27		3090.46		3035.86		-0.06	0.14	3035.94	
49217	M				62.59		2.3293		5.798				178740.15
		1.787	-0.24	-0.48		-2490.54		-2446.53		-0.05	0.11	-2446.47	
62069	M				62.60		2.3302		5.785				176293.69
		0.382	0.00	-0.45		4284.47		4208.76		-0.01	0.02	4208.77	
49216	M				62.61		2.3294		5.783				180502.45

1	2	3	4	5	6	7	8	9	10	11	12	13	14
49216	M				62.61		2.3294		5.783				180502.45
		2.301	0.24	-0.10		10479.76		10294.55		-0.05	0.14	10294.64	
96303	S				62.62		2.3242		5.768				190797.10
		1.402	0.67	0.45		13642.46		13401.29		-0.03	0.08	13401.34	
49214	M				62.63		2.3196		5.759				204198.44
		1.612	0.07	-0.59		4792.00		4707.27		-0.04	0.10	4707.33	
49213	K				62.66		2.3176		5.748				208905.76
		3.010	-0.12	-2.88		-5015.27		-4926.59		-0.07	0.18	-4926.48	
49212	S				62.68		2.3171		5.729				203979.28
		1.676	0.15	-1.26		5644.48		5544.67		-0.04	0.10	5544.73	
49211	M				62.69		2.3159		5.719				209524.01
		1.537	0.10	-1.96		4908.32		4821.53		-0.03	0.09	4821.59	
49210	M				62.70		2.3148		5.710				214345.60
		2.393	0.00	-1.43		-2475.03		-2431.26		-0.05	0.14	-2431.17	
49209	M				62.72		2.3145		5.695				211914.44
		2.259	-0.07	-1.19		-2364.67		-2322.85		-0.05	0.14	-2322.76	
49208	K				62.76		2.3146		5.680				209591.67
		1.915	-0.33	-2.41		-21219.60		-20844.37		-0.04	0.11	-20844.30	
49207	M				62.81		2.3184		5.668				188747.37
		1.914	-0.53	-0.13		-9963.01		-9786.86		-0.04	0.11	-9786.79	
49206	M				62.84		2.3206		5.656				178960.58
		2.586	0.10	-1.88		-85.51		-84.00		-0.05	0.16	-83.89	
49205	K				62.85		2.3201		5.642				178876.70
		27.029	0.17	-14.58		3228.32		3171.46		-0.61	1.62	3172.47	

56 D HANHIKOSKI-KEMIJÄRVI 1996.51

49205	K				62.85		2.3201		5.642				178876.70
		1.640	-0.06	0.53		-2770.09		-2721.12		-0.03	0.10	-2721.05	
49204	M				62.87		2.3183		5.632				176155.64
		2.184	-0.76	-0.60		-20097.53		-19742.22		-0.04	0.13	-19742.13	
49203	M				62.89		2.3228		5.620				156413.51
		1.938	0.09	-0.24		-7114.46		-6988.70		-0.04	0.12	-6988.62	
49202	S				62.91		2.3242		5.608				149424.88
		0.510	0.03	0.07		223.83		219.87		-0.01	0.03	219.89	
49201	S				62.92		2.3246		5.605				149644.79
		0.582	-0.03	-0.15		-6.48		-6.36		-0.01	-0.15	-6.52	
96304	S				62.92		2.3243		5.602				149638.26
		2.182	0.27	1.01		13859.94		13614.94		0.02	-0.44	13614.52	
96302	K				62.87		2.3215		5.609				163252.79
		0.006	0.00	-0.04		-221.40		-217.49		0.00	0.00	-217.49	
96301	K				62.87		2.3215		5.609				163035.29
		9.042	-0.46	0.58		-16126.19		-15841.08		-0.11	-0.21	-15841.40	

57 KEMIJÄRVI-JOUTSIJÄRVI 1996.50

96301	K				62.87		2.3215		5.609				163035.29
		0.006	0.00	-0.04		221.40		217.49		0.00	0.00	217.49	
96302	K				62.87		2.3215		5.609				163252.79
		2.261	-0.17	1.45		-10123.69		-9944.74		-0.04	-0.07	-9944.85	
49200	S				62.91		2.3238		5.598				153307.93
		0.330	-0.03	0.30		-263.72		-259.06		-0.01	-0.01	-259.08	
50201	S				62.91		2.3239		5.597				153048.85
		0.980	-0.23	-0.45		-2783.44		-2734.24		-0.02	-0.03	-2734.29	
50202	S				62.91		2.3257		5.592				150314.56
		1.791	0.13	1.20		7999.27		7857.90		-0.03	-0.06	7857.81	
50203	K				62.90		2.3268		5.584				158172.38
		1.248	0.03	-1.09		-3424.34		-3363.82		-0.02	-0.04	-3363.88	
96305	P				62.89		2.3286		5.579				154808.50
		1.586	0.05	-2.35		3252.52		3195.05		-0.03	-0.05	3194.97	
50204	K				62.89		2.3291		5.571				158003.47
		1.310	-0.14	0.14		8875.75		8718.92		-0.02	-0.04	8718.86	
96306	M				62.90		2.3289		5.564				166722.32
		1.086	-0.01	-0.86		-3850.04		-3782.01		-0.02	-0.03	-3782.06	
50205	M				62.89		2.3310		5.560				162940.25

1	2	3	4	5	6	7	8	9	10	11	12	13	14
50205	M				62.89		2.3310		5.560				162940.25
		1.376	0.00	-1.04		-1338.99		-1315.33		-0.02	-0.04	-1315.39	
96307	M				62.88		2.3315		5.555				161624.86
		1.048	-0.07	-0.34		-3681.77		-3616.72		-0.01	-0.03	-3616.76	
50206	M				62.87		2.3328		5.551				158008.10
		1.994	0.09	-0.15		4093.10		4020.79		-0.04	-0.06	4020.69	
50207	M				62.90		2.3336		5.540				162028.77
		1.742	0.03	-0.55		6459.73		6345.61		-0.03	-0.05	6345.53	
50208	M				62.92		2.3334		5.530				168374.30
		0.932	0.07	-0.76		1779.92		1748.48		-0.01	-0.03	1748.44	
50209	K				62.91		2.3337		5.527				170122.74
		1.440	-0.12	0.50		4082.60		4010.47		-0.02	-0.04	4010.41	
96308	M				62.90		2.3341		5.522				174133.15
		1.355	0.44	-1.53		8554.37		8403.25		-0.02	-0.04	8403.19	
50210	K				62.89		2.3337		5.516				182536.33
		0.773	0.12	0.08		8642.44		8489.75		-0.01	-0.02	8489.72	
96309	M				62.89		2.3320		5.513				191026.05
		1.675	-0.12	0.86		-16611.90		-16318.43		-0.02	-0.05	-16318.50	
50211	M				62.86		2.3354		5.509				174707.56
		0.884	-0.03	-0.38		-8304.35		-8157.67		0.00	-0.03	-8157.70	
96310	M				62.84		2.3376		5.508				166549.86
		1.298	-0.13	0.14		-4112.34		-4039.72		-0.01	-0.04	-4039.77	
96311	K				62.83		2.3399		5.503				162510.09
		0.007	0.00	0.00		-335.56		-329.64		0.00	0.00	-329.64	
50212	K				62.83		2.3400		5.503				162180.45
		25.122	-0.09	-4.87		-869.05		-853.68		-0.38	-0.76	-854.82	

58 A KUUSAMO-MAANINKAVAARA (TEMPERATURE GRAD. PREDICTION) 1995.74

95225	K				60.08		2.2699		5.311				264048.64
		0.011	0.00	-0.13		-2279.88		-2239.46		0.00	0.00	-2239.46	
95328	K				60.08		2.2704		5.311				261809.18
		2.139	-0.26	1.28		-8375.68		-8227.19		-0.02	0.07	-8227.14	
95226	S				60.13		2.2722		5.308				253582.05
		2.569	0.10	0.02		9721.69		9549.33		0.02	0.08	9549.43	
613281	P				60.21		2.2686		5.313				263131.47
		3.802	0.03	0.16		5512.30		5414.56		0.03	0.12	5414.71	
50054	M				60.32		2.2686		5.320				268546.18
		2.611	-0.17	1.34		-5330.69		-5236.18		0.00	0.08	-5236.10	
50055	M				60.40		2.2725		5.319				263310.08
		0.025	0.00	-0.03		-391.46		-384.52		0.00	0.00	-384.52	
95230	M				60.40		2.2726		5.319				262925.56
		1.805	0.17	1.32		18218.20		17895.22		-0.01	0.06	17895.27	
50056	M				60.45		2.2697		5.317				280820.83
		2.459	0.14	0.77		15996.04		15712.41		0.00	0.08	15712.49	
50057	M				60.52		2.2673		5.318				296533.32
		2.638	0.09	0.03		-6954.91		-6831.61		-0.01	0.08	-6831.54	
50058	M				60.60		2.2733		5.316				289701.78
		1.323	0.12	0.35		14778.04		14516.05		-0.01	0.04	14516.08	
95227	M				60.64		2.2709		5.314				304217.86
		1.464	-0.02	0.98		-10846.07		-10653.77		-0.02	0.05	-10653.74	
50060	M				60.68		2.2705		5.309				293564.10
		1.415	0.06	-0.72		20788.68		20420.07		-0.01	0.04	20420.10	
95228	M				60.72		2.2667		5.307				313984.21
		1.073	-0.38	0.48		9816.18		9642.09		0.01	0.03	9642.13	
95229	M				60.75		2.2649		5.310				323626.34
		1.168	0.55	-0.73		-15516.03		-15240.89		0.01	0.04	-15240.84	
50271	K				60.78		2.2694		5.313				308385.50
		1.734	-1.73	0.01		51365.16		50454.04		0.02	0.05	50454.11	
95135	K				60.82		2.2544		5.318				358839.61
		1.882	1.37	0.98		-46508.59		-45683.50		0.03	0.06	-45683.41	
50269	K				60.86		2.2641		5.325				313156.20
		1.210	0.66	-0.21		-21718.32		-21333.21		0.01	0.04	-21333.16	
50268	K				60.90		2.2718		5.326				291823.05
		1.616	-0.15	-0.06		4679.49		4596.52		0.00	0.05	4596.57	
95136	K				60.95		2.2704		5.327				296419.61

1	2	3	4	5	6	7	8	9	10	11	12	13	14
95136	K				60.95		2.2704		5.327				296419.61
		2.772	0.17	0.80		-37917.91		-37245.76		-0.01	0.09	-37245.68	
50265	K				61.03		2.2764		5.325				259173.93
		1.566	-0.03	-0.53		-17326.96		-17019.90		0.00	0.05	-17019.85	
95332	S				61.08		2.2800		5.325				242154.08
		1.735	0.07	0.10		2030.91		1994.92		0.03	0.05	1995.00	
50263	M				61.10		2.2815		5.331				244149.09
		0.340	0.00	-0.20		1868.35		1835.24		0.00	0.01	1835.25	
95333	K				61.10		2.2812		5.332				245984.34
		1.398	0.00	0.45		1081.21		1062.05		0.02	0.04	1062.11	
50262	M				61.12		2.2826		5.338				247046.45
		1.262	0.07	0.11		-4481.07		-4401.68		0.02	0.04	-4401.62	
50261	M				61.13		2.2845		5.343				242644.83
		1.529	0.03	-0.40		-2652.04		-2605.07		0.03	0.05	-2604.99	
50260	K				61.14		2.2874		5.350				240039.84
		0.019	0.00	-0.05		-90.55		-88.94		0.00	0.00	-88.94	
95334	K				61.14		2.2874		5.350				239950.90
		2.275	0.12	-1.81		-1985.60		-1950.43		0.04	0.07	-1950.32	
50259	M				61.14		2.2863		5.360				238000.58
		2.771	0.00	-0.96		12688.68		12463.92		0.05	0.09	12464.06	
50258	M				61.16		2.2858		5.372				250464.64
		1.176	0.13	0.25		2305.84		2264.99		0.02	0.04	2265.05	
50257	K				61.18		2.2869		5.376				252729.69
		1.979	0.53	-1.54		-12403.93		-12184.25		0.02	0.06	-12184.17	
95139	M				61.24		2.2905		5.380				240545.52
		1.926	-0.11	-2.02		3869.05		3800.52		-0.01	0.06	3800.57	
50255	M				61.29		2.2874		5.379				244346.09
		2.612	0.18	-1.92		-6366.46		-6253.69		0.00	0.08	-6253.61	
50254	M				61.35		2.2883		5.380				238092.48
		2.001	-0.09	-2.53		3243.33		3185.88		0.00	0.06	3185.94	
50253	M				61.38		2.2890		5.379				241278.42
		1.598	-0.17	0.17		3799.01		3731.72		0.02	0.05	3731.79	
95138	M				61.42		2.2901		5.384				245010.21
		1.898	0.14	-0.78		-5523.14		-5425.33		0.02	0.06	-5425.25	
95137	M				61.46		2.2907		5.389				239584.97
		1.569	-0.02	-0.88		2963.07		2910.60		0.01	0.05	2910.66	
50251	K				61.51		2.2893		5.392				242495.63
		3.070	0.25	0.18		10979.63		10785.18		0.03	0.10	10785.31	
95231	K				61.58		2.2898		5.399				253280.93
		1.924	-0.69	-1.69		21059.74		20686.72		0.01	0.06	20686.79	
50249	K				61.63		2.2852		5.401				273967.72
		2.409	-0.46	-0.63		17796.58		17481.27		0.03	0.08	17481.38	
50248	M				61.68		2.2806		5.408				291449.09
		2.405	-0.47	-0.29		22846.15		22441.29		0.04	0.08	22441.41	
50247	K				61.71		2.2775		5.417				313890.51
		1.284	0.55	0.08		-20299.88		-19940.16		0.02	0.04	-19940.10	
95232	M				61.74		2.2817		5.421				293950.41
		1.635	0.05	1.15		5734.69		5633.07		0.02	0.05	5633.14	
50245	K				61.78		2.2803		5.424				299583.55
		1.868	-0.25	0.82		-14892.85		-14628.99		0.02	0.06	-14628.91	
50244	K				61.82		2.2844		5.429				284954.64
		1.337	0.01	0.36		-241.55		-237.27		0.01	0.04	-237.22	
95233	M				61.85		2.2843		5.432				284717.42
		1.958	0.03	-0.69		12523.95		12302.08		0.03	0.06	12302.17	
95235	K				61.89		2.2837		5.439				297019.59
		0.020	0.00	-0.15		417.55		410.15		0.00	0.00	410.15	
95234	K				61.89		2.2836		5.439				297429.74
		79.280	0.62	-6.76		33979.93		33378.10		0.52	2.49	33381.11	

58 B MAANINKAVAARA-JOUTSIJÄRVI 1996.64

95234	K				61.89		2.2836		5.439				297429.74
		1.446	0.05	0.96		2179.41		2140.80		0.01	0.05	2140.86	
96324	M				61.92		2.2854		5.443				299570.59
		1.116	-0.08	0.51		-27125.90		-26645.46		0.01	0.03	-26645.42	
50241	M				61.94		2.2913		5.446				272925.18

1	2	3	4	5	6	7	8	9	10	11	12	13	14
50241	M				61.94		2.2913		5.446				272925.18
		2.998	-0.14	2.72		-7160.04		-7033.27		0.03	0.09	-7033.15	
96323	M				61.99		2.2969		5.456				265892.03
		2.300	-0.02	2.34		4835.18		4749.59		0.01	0.07	4749.67	
96322	K				62.05		2.2981		5.460				270641.71
		1.406	0.02	0.25		-6585.47		-6468.90		0.02	0.04	-6468.84	
96321	M				62.07		2.3016		5.465				264172.87
		1.907	0.14	0.59		537.38		527.87		0.00	0.06	527.93	
50237	M				62.12		2.3039		5.465				264700.80
		1.263	-0.35	1.22		-9618.22		-9448.03		0.01	0.04	-9447.98	
50236	K				62.15		2.3058		5.467				255252.83
		2.556	0.05	0.36		-6319.18		-6207.38		0.03	0.08	-6207.27	
50235	M				62.19		2.3088		5.476				249045.56
		1.446	-0.03	1.41		4708.16		4624.87		0.02	0.05	4624.94	
96320	K				62.21		2.3091		5.482				253670.48
		0.922	-0.03	-0.15		-5226.73		-5134.27		0.01	0.03	-5134.23	
50234	K				62.23		2.3109		5.485				248536.25
		0.798	-0.11	0.70		-8036.64		-7894.49		0.01	0.02	-7894.46	
96319	K				62.24		2.3126		5.487				240641.81
		1.080	-0.08	0.29		-5954.49		-5849.17		0.01	0.03	-5849.13	
50233	M				62.26		2.3137		5.491				234792.67
		2.172	-0.43	-0.45		-32873.13		-32291.86		0.02	0.07	-32291.77	
50232	M				62.29		2.3216		5.498				202500.90
		3.530	-0.24	2.55		-27098.50		-26619.56		0.05	0.11	-26619.40	
50231	M				62.32		2.3298		5.512				175881.50
		1.945	0.00	1.05		-1231.37		-1209.62		0.01	0.06	-1209.55	
96318	M				62.37		2.3311		5.513				174671.95
		2.714	-0.44	-0.50		-23058.11		-22650.77		0.00	0.08	-22650.69	
96326	S				62.45		2.3364		5.513				152021.26
		0.761	0.12	-0.55		7222.00		7094.43		-0.01	0.02	7094.44	
50229	M				62.47		2.3352		5.511				159115.71
		0.822	-0.03	-0.07		-5900.24		-5796.02		0.00	0.03	-5795.99	
96325	S				62.50		2.3371		5.510				153319.71
		1.126	0.43	-0.21		22481.49		22084.36		-0.01	0.04	22084.39	
96317	K				62.53		2.3336		5.507				175404.11
		2.001	0.14	-0.11		4778.09		4693.69		-0.01	0.06	4693.74	
96316	K				62.60		2.3340		5.503				180097.84
		1.291	0.01	-0.75		-2141.29		-2103.46		-0.01	0.04	-2103.43	
96315	M				62.64		2.3357		5.500				177994.41
		1.263	-0.48	-0.21		-22802.41		-22399.68		-0.01	0.04	-22399.65	
96314	S				62.68		2.3409		5.497				155594.76
		0.621	-0.02	0.38		403.06		395.94		0.00	0.02	395.96	
50226	M				62.70		2.3409		5.496				155990.72
		2.394	-0.08	0.26		-76.80		-75.43		0.00	0.07	-75.36	
96313	M				62.77		2.3407		5.495				155915.35
		2.392	-0.06	-0.13		8221.57		8076.38		0.01	0.07	8076.46	
50215.1	M				62.81		2.3402		5.498				163991.83
		0.147	-0.01	0.15		-2956.81		-2904.59		0.00	0.00	-2904.59	
50214.1	M				62.82		2.3406		5.498				161087.24
		0.796	-0.03	0.75		-2005.16		-1969.75		0.01	0.02	-1969.72	
96312	S				62.82		2.3411		5.500				159117.54
		0.882	0.02	-0.63		3452.61		3391.65		0.01	0.90	3392.56	
96311	K				62.83		2.3399		5.503				162510.09
		0.007	0.00	0.00		-335.56		-329.64		0.00	0.00	-329.64	
50212	K				62.83		2.3400		5.503				162180.45
		44.102	-1.68	12.73		-137687.08		-135251.77		0.23	2.22	-135249.32	

59 A LAURILA-KYLÄJOKI 1996.74

3133A	K				59.50		2.3153		6.882				18234.97
		0.317	0.14	0.00		-2192.21		-2153.44		0.01	0.01	-2153.42	
3133	M				59.50		2.3156		6.884				16081.54
		1.133	-0.20	0.70		-7465.86		-7333.84		0.01	0.04	-7333.79	
62063	M				59.48		2.3181		6.888				8747.75
		2.156	-0.11	-0.22		-3256.41		-3198.84		0.04	0.09	-3198.71	
81008	S				59.51		2.3234		6.899				5549.04

1	2	3	4	5	6	7	8	9	10	11	12	13	14
81008	S				59.51		2.3234		6.899				5549.04
		1.193	0.09	-0.92		-170.94		-167.92		0.02	0.05	-167.85	
62062	M				59.52		2.3256		6.905				5381.18
		0.984	0.00	0.70		1575.64		1547.79		0.02	0.04	1547.85	
50216	S				59.53		2.3252		6.910				6929.03
		1.544	0.07	-1.04		7218.14		7090.57		0.03	0.06	7090.66	
96214	M				59.54		2.3242		6.918				14019.69
		0.938	0.06	-0.22		2521.95		2477.38		0.01	0.04	2477.43	
79002	M				59.55		2.3245		6.922				16497.12
		1.130	0.00	0.07		-632.78		-621.60		0.02	0.04	-621.54	
1397	K				59.57		2.3246		6.928				15875.58
		9.395	0.05	-0.93		-2402.47		-2359.91		0.16	0.37	-2359.38	

59 B KYLÄJOKI-TORNIO 1996.75

1397	K				59.57		2.3246		6.928				15875.58
		0.715	0.02	0.32		-6698.73		-6580.33		0.01	0.03	-6580.29	
61180	M				59.58		2.3260		6.931				9295.28
		1.994	0.05	-0.05		-924.71		-908.36		0.03	0.08	-908.25	
96215	S				59.60		2.3253		6.940				8387.04
		2.290	0.05	0.76		2233.25		2193.77		0.02	0.09	2193.88	
65022	M				59.64		2.3238		6.945				10580.92
		1.286	0.04	0.12		-2030.18		-1994.29		0.01	0.05	-1994.23	
55010	S				59.67		2.3229		6.948				8586.68
		2.076	0.02	-0.02		2053.09		2016.80		0.04	0.08	2016.92	
96129	K				59.66		2.3235		6.959				10603.61
		8.361	0.18	1.13		-5367.28		-5272.41		0.11	0.33	-5271.97	

60 A TORNIO-NIVANPÄÄ 1997.46

96129	K				59.66		2.3235		6.959				10603.61
		0.014	0.00	-0.02		-795.64		-781.58		0.00	0.00	-781.58	
96128	K				59.66		2.3236		6.959				9822.03
		0.681	0.07	0.21		-6235.90		-6125.68		0.00	0.00	-6125.68	
97305	S				59.67		2.3250		6.959				3696.34
		0.422	0.06	-0.49		5470.54		5373.84		0.00	0.00	5373.84	
87003	M				59.67		2.3242		6.961				9070.18
		1.754	0.03	-1.36		-96.32		-94.62		0.00	-0.01	-94.63	
3932	M				59.71		2.3226		6.962				8975.54
		0.977	-0.13	1.29		-2242.97		-2203.32		-0.01	0.00	-2203.33	
97304	S				59.74		2.3216		6.959				6772.21
		2.664	0.07	-2.94		3078.67		3024.24		-0.02	-0.01	3024.21	
66055	M				59.82		2.3228		6.953				9796.43
		2.068	-0.06	-0.98		2404.02		2361.52		-0.01	-0.01	2361.50	
3934	M				59.89		2.3247		6.947				12157.93
		1.351	-0.03	-0.57		348.46		342.30		-0.01	-0.01	342.28	
683151	S				59.93		2.3277		6.944				12500.21
		2.188	0.01	-0.75		-3607.93		-3544.18		0.00	-0.01	-3544.19	
66054	R				59.99		2.3306		6.942				8956.01
		2.621	-0.06	-1.54		7914.18		7774.34		0.00	-0.01	7774.33	
3936	M				60.05		2.3315		6.941				16730.35
		2.396	0.35	-1.06		8140.84		7997.01		-0.01	-0.01	7996.99	
53202	K				60.13		2.3326		6.936				24727.33
		1.314	0.06	-1.87		459.49		451.37		-0.02	-0.01	451.34	
53203	M				60.17		2.3338		6.928				25178.68
		0.101	-0.02	-0.08		-493.68		-484.96		0.00	0.00	-484.96	
66045	M				60.17		2.3340		6.928				24693.72
		1.587	0.05	-1.83		2947.75		2895.67		-0.02	-0.01	2895.64	
66043	M				60.22		2.3337		6.920				27589.36
		0.022	0.00	0.05		707.32		694.82		0.00	0.00	694.82	
3938	M				60.22		2.3336		6.919				28284.18
		1.046	0.04	-0.67		1547.95		1520.60		-0.01	0.00	1520.59	
97306	K				60.26		2.3335		6.915				29804.76
		1.053	0.01	-0.93		-4858.32		-4772.49		-0.01	0.00	-4772.50	
53204	S				60.29		2.3346		6.912				25032.25

1	2	3	4	5	6	7	8	9	10	11	12	13	14
53204	S				60.29		2.3346		6.912				25032.25
		2.260	0.11	-2.14		1590.66		1562.56		-0.02	-0.01	1562.53	
53205	M				60.35		2.3341		6.905				26594.79
		0.282	0.01	-0.08		304.28		298.91		0.00	0.00	298.91	
3940	M				60.36		2.3342		6.904				26893.70
		1.701	-0.06	-1.05		11677.18		11470.88		-0.01	-0.01	11470.86	
97307	K				60.40		2.3311		6.902				38364.56
		1.541	-0.04	-1.35		-9319.36		-9154.70		-0.01	-0.01	-9154.72	
53206	M				60.44		2.3323		6.898				29209.85
		1.179	0.00	-0.65		-266.17		-261.47		0.00	-0.01	-261.48	
AP0302	P				60.46		2.3318		6.899				28948.37
		3.268	0.19	-0.61		3980.27		3909.94		-0.03	-0.01	3909.90	
3943	M				60.56		2.3289		6.888				32858.27
		2.680	0.02	-2.71		3679.81		3614.78		-0.03	-0.01	3614.74	
3944	M				60.65		2.3262		6.877				36473.01
		35.170	0.68	-22.13		26335.10		25869.77		-0.22	-0.15	25869.40	

60 B NIVANPÄÄ-PEKANPÄÄ 1997.62

3944	M				60.65		2.3262		6.877				36473.01
		0.056	0.07	-0.39		3228.18		3171.12		0.00	0.00	3171.12	
97308	M				60.65		2.3255		6.877				39644.13
		1.580	0.21	-0.97		-1163.38		-1142.82		-0.02	-0.01	-1142.85	
97309	M				60.70		2.3269		6.869				38501.28
		1.627	0.07	0.16		-239.46		-235.23		-0.02	-0.01	-235.26	
3945	M				60.75		2.3281		6.860				38266.02
		2.098	-0.14	1.17		-5906.10		-5801.74		-0.01	-0.01	-5801.76	
97311	K				60.80		2.3303		6.856				32464.26
		0.969	0.15	-0.06		10323.29		10140.88		-0.01	0.00	10140.87	
97310	R				60.81		2.3285		6.852				42605.12
		1.325	0.00	-2.27		166.71		163.76		-0.01	-0.01	163.74	
97312	S				60.85		2.3294		6.847				42768.86
		2.048	-0.09	-0.70		-2511.25		-2466.87		0.00	-0.01	-2466.88	
66046	S				60.89		2.3296		6.846				40301.99
		1.327	0.05	-0.33		6998.54		6874.87		0.01	-0.01	6874.87	
97313	M				60.89		2.3277		6.851				47176.85
		1.120	-0.10	1.23		-5573.02		-5474.53		0.01	0.00	-5474.52	
97314	M				60.89		2.3284		6.855				41702.33
		1.184	0.12	-0.28		8704.28		8550.45		0.01	-0.01	8550.45	
53211	M				60.88		2.3262		6.859				50252.78
		0.052	0.00	-0.30		301.50		296.17		0.00	0.17	296.34	
53212	M				60.88		2.3262		6.860				50549.12
		0.025	0.00	-0.35		467.85		459.58		0.00	-0.03	459.55	
53213	M				60.88		2.3261		6.860				51008.67
		0.518	0.01	-0.09		-749.26		-736.02		-0.01	0.05	-735.98	
97315	M				60.89		2.3264		6.857				50272.69
		1.650	-0.09	1.59		-1.21		-1.18		0.00	-0.35	-1.53	
53217	M				60.93		2.3264		6.856				50271.15
		1.587	0.04	0.81		9982.85		9806.41		-0.02	0.06	9806.45	
3949	M				60.97		2.3249		6.848				60077.60
		1.083	0.12	-0.73		5594.51		5495.62		0.00	0.04	5495.66	
97318	M				60.98		2.3239		6.849				65573.26
		0.872	0.05	0.96		11203.79		11005.74		-0.01	-0.21	11005.52	
97316	K				61.00		2.3219		6.847				76578.78
		0.019	-0.01	-0.09		2610.84		2564.68		0.00	0.00	2564.68	
97317	K				61.00		2.3214		6.847				79143.46
		19.140	0.46	-0.64		43438.64		42670.86		-0.08	-0.34	42670.44	

61 PEKANPÄÄ-AAVASAKSA 1997.68

97317	K				61.00		2.3214		6.847				79143.46
		0.019	0.01	-0.09		-2610.84		-2564.68		0.00	0.00	-2564.68	
97316	K				61.00		2.3219		6.847				76578.78
		2.206	-0.11	2.19		-7675.80		-7540.12		-0.03	-0.14	-7540.29	
66047	M				61.04		2.3239		6.836				69038.50

1	2	3	4	5	6	7	8	9	10	11	12	13	14
66047	M				61.04		2.3239		6.836				69038.50
		1.734	-0.09	-0.47		2841.37		2791.15		-0.01	-0.11	2791.03	
66048	M				61.09		2.3237		6.833				71829.52
		0.974	-0.02	-0.65		876.91		861.41		0.00	-0.06	861.35	
97319	M				61.11		2.3228		6.831				72690.87
		0.941	-0.26	-0.50		-10216.90		-10036.30		-0.01	-0.06	-10036.37	
3951	K				61.14		2.3239		6.828				62654.51
		2.168	-0.05	-0.58		2384.49		2342.34		-0.02	-0.13	2342.19	
3952	M				61.20		2.3213		6.820				64996.69
		1.856	0.02	-0.46		-1441.38		-1415.90		-0.02	-0.12	-1416.04	
3953	K				61.26		2.3215		6.813				63580.66
		0.780	-0.03	0.36		-2510.58		-2466.20		-0.01	-0.05	-2466.26	
97320	M				61.28		2.3222		6.811				61114.40
		2.501	0.18	-0.92		13898.35		13652.64		-0.02	-0.16	13652.46	
66049	K				61.35		2.3206		6.802				74766.86
		1.112	0.02	-0.28		118.70		116.60		-0.01	-0.07	116.52	
97321	M				61.38		2.3210		6.797				74883.38
		0.983	0.06	-1.10		5328.78		5234.57		-0.01	-0.06	5234.50	
66050	K				61.41		2.3204		6.791				80117.88
		0.020	0.00	-0.20		-1013.52		-995.61		0.00	0.00	-995.61	
3955	K				61.41		2.3206		6.791				79122.27
		1.672	-0.22	-0.36		-11538.66		-11334.69		-0.03	-0.10	-11334.82	
3956	M				61.47		2.3237		6.779				67787.44
		1.986	-0.04	-1.17		-9411.69		-9245.34		-0.03	-0.12	-9245.49	
66051	K				61.53		2.3262		6.764				58541.94
		1.870	-0.10	-0.27		-8074.83		-7932.13		-0.04	-0.12	-7932.29	
97322	S				61.58		2.3283		6.748				50609.66
		2.555	-0.01	0.14		1953.24		1918.72		-0.04	-0.16	1918.52	
97323	S				61.66		2.3293		6.733				52528.18
		0.555	0.09	-0.11		-3459.45		-3398.33		0.01	-0.03	-3398.35	
532101	M				61.66		2.3301		6.736				49129.82
		0.993	0.08	-0.02		7358.21		7228.19		-0.01	-0.06	7228.12	
3959	M				61.67		2.3285		6.730				56357.95
		1.028	0.03	0.42		6581.96		6465.64		0.01	0.57	6466.22	
97329	M				61.65		2.3269		6.732				62824.18
		0.262	0.06	-0.27		21928.80		21541.20		0.00	-0.43	21540.77	
97324	K				61.65		2.3226		6.731				84364.95
		0.007	0.00	-0.01		1717.97		1687.60		0.00	-0.01	1687.59	
97325	K				61.65		2.3223		6.731				86052.54
		26.222	-0.38	-4.35		7035.12		6910.76		-0.27	-1.42	6909.07	

62 A AAVASAKSA-VIETONEN 1997.73

97325	K				61.65		2.3223		6.731				86052.54
		0.007	0.00	-0.01		-1717.97		-1687.60		0.00	0.01	-1687.59	
97324	K				61.65		2.3226		6.731				84364.95
		0.627	0.48	-0.04		-12411.26		-12191.87		0.00	-0.02	-12191.89	
53362	M				61.64		2.3247		6.730				72173.05
		0.984	-0.04	0.45		-13744.88		-13501.96		-0.01	-0.03	-13502.00	
97327	K				61.65		2.3285		6.725				58671.05
		1.090	0.00	-0.55		-1301.33		-1278.33		-0.02	-0.04	-1278.39	
97326	K				61.66		2.3294		6.718				57392.66
		1.964	0.00	0.70		-4171.48		-4097.76		-0.02	-0.07	-4097.85	
734141	M				61.65		2.3296		6.710				53294.81
		1.654	0.14	0.61		12448.91		12228.91		-0.02	-0.06	12228.83	
97328	S				61.66		2.3271		6.701				65523.65
		1.478	-0.02	-0.29		615.75		604.88		-0.02	-0.05	604.81	
53359	M				61.69		2.3267		6.690				66128.44
		1.737	-0.05	0.11		-302.19		-296.85		-0.01	-0.06	-296.92	
53358	M				61.68		2.3284		6.683				65831.52
		1.694	0.11	0.07		18580.56		18252.18		-0.03	-0.06	18252.09	
53357	M				61.70		2.3250		6.672				84083.62
		1.781	-0.06	0.37		-9566.66		-9397.59		-0.04	-0.06	-9397.69	
53356	M				61.75		2.3291		6.656				74685.92
		2.118	-0.10	0.47		11651.75		11445.85		-0.04	-0.07	11445.74	
53355	M				61.80		2.3277		6.637				86131.67

1	2	3	4	5	6	7	8	9	10	11	12	13	14
53355	M				61.80		2.3277		6.637				86131.67
		1.724	-0.17	0.87		-18035.66		-17716.97		-0.03	-0.06	-17717.06	
97330	S				61.82		2.3319		6.626				68414.60
		1.538	0.05	0.43		11563.04		11358.73		-0.03	-0.05	11358.65	
53354	M				61.84		2.3296		6.614				79773.25
		1.940	-0.03	0.37		13125.29		12893.34		-0.04	-0.07	12893.23	
53353	M				61.88		2.3270		6.597				92666.48
		1.677	-0.07	-0.02		-2931.87		-2880.05		-0.03	-0.06	-2880.14	
53352	M				61.91		2.3285		6.583				89786.35
		1.490	-0.08	0.52		-2856.34		-2805.86		-0.03	-0.05	-2805.94	
97331	M				61.94		2.3294		6.570				86980.41
		0.811	-0.06	-0.25		2476.58		2432.83		-0.01	-0.03	2432.79	
53351	M				61.96		2.3290		6.564				89413.19
		1.976	0.06	0.48		4964.61		4876.88		-0.03	-0.07	4876.78	
53350	M				61.97		2.3292		6.553				94289.97
		2.490	-0.05	0.43		8413.11		8264.44		-0.05	-0.09	8264.30	
97332	K				62.02		2.3302		6.532				102554.27
		2.195	0.01	-0.48		-10351.45		-10168.56		-0.02	-0.08	-10168.66	
53348	M				62.05		2.3330		6.522				92385.62
		3.008	0.20	-0.20		-215.74		-211.93		-0.05	-0.10	-212.08	
97333	M				62.09		2.3352		6.499				92173.53
		1.047	0.01	0.23		580.11		569.86		-0.01	-0.04	569.81	
53347	M				62.10		2.3352		6.492				92743.35
		1.648	0.00	0.84		-8872.08		-8715.37		-0.02	-0.06	-8715.45	
97334	M				62.12		2.3383		6.481				84027.90
		1.151	-0.08	0.01		-5213.25		-5121.18		-0.02	-0.04	-5121.24	
97335	M				62.12		2.3393		6.475				78906.67
		1.160	-0.21	0.04		7325.93		7196.54		-0.02	-0.04	7196.48	
53345	M				62.15		2.3381		6.465				86103.14
		0.881	0.00	-0.35		8540.38		8389.54		-0.02	-0.03	8389.49	
97336	M				62.17		2.3371		6.459				94492.63
		1.538	-0.30	0.83		6712.81		6594.24		-0.03	-0.05	6594.16	
53344	M				62.21		2.3373		6.445				101086.78
		0.858	-0.27	0.03		14520.40		14263.91		-0.01	-0.03	14263.87	
97337	K				62.23		2.3348		6.439				115350.65
		1.518	0.30	0.59		-26055.84		-25595.63		-0.02	-0.05	-25595.70	
53343	M				62.23		2.3403		6.433				89754.94
		3.665	0.17	0.30		2881.76		2830.87		-0.04	-0.13	2830.70	
53342	M				62.23		2.3392		6.415				92585.64
		3.194	0.02	1.20		5171.62		5080.28		-0.03	-0.11	5080.14	
AP2000	P				62.24		2.3377		6.401				97665.79
		0.982	0.04	-0.23		-11861.07		-11651.58		0.00	-0.03	-11651.61	
97338	S				62.22		2.3396		6.400				86014.18
		3.070	-0.20	1.01		22940.56		22535.40		-0.05	-0.11	22535.24	
97339	M				62.30		2.3380		6.380				108549.41
		1.741	0.18	0.96		-11356.95		-11156.39		-0.02	-0.06	-11156.47	
53340	M				62.35		2.3421		6.372				97392.94
		1.658	0.00	1.55		5590.28		5491.57		-0.03	-0.06	5491.48	
53339	M				62.40		2.3429		6.361				102884.42
		1.261	-0.02	1.38		-887.68		-872.00		-0.02	-0.04	-872.06	
52271	K				62.44		2.3451		6.351				102012.36
		0.010	-0.01	0.00		563.87		553.91		0.00	0.00	553.91	
52270	K				62.44		2.3450		6.351				102566.27
		59.365	-0.05	12.43		16813.61		16516.66		-0.87	-2.05	16513.74	

62 B VIETONEN-RAANUJÄRVI 1997.83

52270	K				62.44		2.3450		6.351				102566.27
		2.524	-0.09	-0.11		-7543.19		-7410.02		-0.04	-0.09	-7410.15	
52269	M				62.49		2.3462		6.331				95156.12
		0.764	-0.03	0.13		4786.40		4701.90		-0.01	-0.03	4701.86	
52268	M				62.50		2.3468		6.325				99857.99
		2.011	-0.72	0.61		33842.59		33245.11		-0.03	-0.07	33245.01	
52267	M				62.56		2.3440		6.309				133103.00
		0.332	-0.04	0.37		6335.31		6223.45		0.00	-0.23	6223.22	
97147	K				62.57		2.3426		6.309				139326.23

1	2	3	4	5	6	7	8	9	10	11	12	13	14
97147	K				62.57		2.3426		6.309				139326.23
		0.018	0.00	-0.23		-380.53		-373.81		0.00	0.00	-373.81	
97148	K				62.57		2.3427		6.309				138952.42
		5.649	-0.88	0.77		37040.58		36386.64		-0.08	-0.42	36386.14	

62 C RAANUJÄRVI-SINETTÄ 1998.43

97148	K				62.57		2.3427		6.309				138952.42
		0.018	0.00	-0.23		380.53		373.81		0.00	0.00	373.81	
97147	K				62.57		2.3426		6.309				139326.23
		0.439	0.04	-0.01		-6334.77		-6222.92		0.00	-0.30	-6223.22	
52267	M				62.56		2.3440		6.309				133103.00
		1.389	0.05	-0.96		334.43		328.53		-0.02	-0.05	328.46	
523178	M				62.61		2.3441		6.298				133431.46
		2.194	-0.25	-2.15		-29528.47		-29007.18		-0.02	-0.08	-29007.28	
52266	M				62.62		2.3481		6.289				104424.18
		1.062	-0.18	0.08		22259.70		21866.72		-0.01	-0.04	21866.67	
52265	M				62.64		2.3432		6.281				126290.85
		1.481	-0.05	-1.26		-13175.40		-12942.80		-0.01	-0.05	-12942.86	
52264	M				62.64		2.3470		6.275				113347.99
		2.648	0.18	1.70		2119.72		2082.30		-0.02	-0.09	2082.19	
98201	M				62.64		2.3468		6.263				115430.18
		1.228	0.23	1.28		5795.99		5693.68		-0.01	-0.04	5693.63	
52262	M				62.65		2.3457		6.255				121123.81
		1.444	-0.08	0.68		-3232.54		-3175.47		-0.01	-0.05	-3175.53	
98202	S				62.64		2.3458		6.252				117948.28
		2.079	0.18	0.80		13590.77		13350.82		-0.01	-0.07	13350.74	
98203	M				62.62		2.3430		6.247				131299.01
		0.745	-0.09	1.11		-4040.08		-3968.75		-0.01	-0.03	-3968.79	
52260	M				62.62		2.3439		6.243				127330.23
		2.804	0.01	2.33		11564.59		11360.39		-0.02	-0.10	11360.27	
98204	K				62.60		2.3419		6.233				138690.51
		1.625	0.19	-0.24		2347.42		2305.97		0.00	-0.06	2305.91	
52258	M				62.58		2.3401		6.232				140996.41
		1.463	0.29	1.08		16746.12		16450.37		-0.01	-0.05	16450.31	
52257	K				62.57		2.3382		6.229				157446.72
		1.989	0.06	0.43		3295.57		3237.37		-0.02	-0.07	3237.28	
98205	K				62.59		2.3386		6.216				160684.00
		0.663	0.08	0.40		-5919.64		-5815.10		0.00	-0.02	-5815.12	
52256	K				62.60		2.3401		6.214				154868.88
		1.807	-0.02	0.75		-43188.79		-42426.26		-0.01	-0.06	-42426.33	
98206	M				62.60		2.3484		6.208				112442.55
		2.150	0.02	0.81		1913.80		1880.02		-0.01	-0.07	1879.94	
52254	M				62.60		2.3493		6.200				114322.47
		1.962	0.09	0.78		-3684.82		-3619.78		-0.01	-0.07	-3619.86	
52253	M				62.60		2.3506		6.191				110702.61
		1.098	-0.09	0.15		-7633.03		-7498.32		-0.01	-0.04	-7498.37	
98207	M				62.61		2.3522		6.184				103204.24
		1.448	0.00	-0.52		2607.79		2561.77		-0.01	-0.05	2561.71	
52252	M				62.63		2.3523		6.175				105765.95
		1.356	0.16	0.72		6262.58		6152.05		-0.01	-0.05	6151.99	
52251	M				62.63		2.3507		6.167				111917.96
		1.392	0.52	0.07		13388.08		13151.78		-0.01	-0.05	13151.72	
887194	M				62.66		2.3490		6.159				125069.67
		4.150	-0.08	-1.96		-29257.82		-28741.46		-0.03	-0.14	-28741.63	
98208	M				62.66		2.3542		6.140				96328.04
		0.632	-0.06	0.06		-9794.56		-9621.74		0.00	-0.02	-9621.76	
KP8668	S				62.65		2.3559		6.139				86706.27
		0.922	-0.07	0.33		21493.42		21114.14		0.01	0.06	21114.21	
97137	M				62.63		2.3514		6.144				107820.48
		0.172	0.15	0.20		17645.55		17334.10		0.00	-0.23	17333.87	
97138	K				62.63		2.3478		6.144				125154.34
		0.012	0.00	0.10		1182.03		1161.17		0.00	0.00	1161.17	
97139	K				62.63		2.3475		6.144				126315.51
		40.372	1.28	6.53		-12861.84		-12634.82		-0.26	-1.82	-12636.90	

1	2	3	4	5	6	7	8	9	10	11	12	13	14
						63 ROVANIEMI-SINETTÄ 1997.76							
HT1916	K				62.12		2.3450		6.164				76357.11
		0.018	-0.01	0.06		870.42		855.05		0.00	0.00	855.05	
49260	K				62.12		2.3449		6.164				77212.15
		1.395	-0.06	0.25		4823.91		4738.74		0.00	-0.18	4738.56	
97146	S				62.14		2.3442		6.165				81950.72
		0.924	0.01	0.06		-4434.23		-4355.95		0.00	-0.12	-4356.07	
97145	S				62.17		2.3453		6.164				77594.65
		1.613	0.04	1.15		12338.08		12120.23		0.00	-0.21	12120.02	
52238	M				62.21		2.3417		6.163				89714.67
		2.413	-0.10	-0.06		13733.44		13490.91		0.00	-0.32	13490.59	
52239	M				62.27		2.3397		6.161				103205.26
		1.723	0.15	-0.15		-6117.84		-6009.81		-0.01	-0.23	-6010.05	
52240	M				62.32		2.3413		6.156				97195.22
		1.356	-0.13	-0.12		4827.44		4742.19		-0.01	-0.18	4742.00	
97144	M				62.36		2.3407		6.152				101937.22
		1.676	-0.05	0.82		5158.91		5067.80		-0.01	-0.22	5067.57	
97143	M				62.41		2.3407		6.148				107004.79
		1.829	0.37	1.52		-16509.57		-16218.07		-0.01	-0.24	-16218.32	
52242	M				62.46		2.3465		6.142				90786.47
		2.402	0.10	1.63		-11144.29		-10947.59		0.00	-0.31	-10947.90	
97142	M				62.51		2.3516		6.141				79838.57
		1.857	-0.06	-0.24		2153.16		2115.16		0.00	-0.24	2114.92	
97141	M				62.55		2.3522		6.140				81953.48
		1.863	0.01	2.11		-1471.12		-1445.16		-0.01	-0.24	-1445.41	
97140	M				62.60		2.3542		6.137				80508.07
		1.945	-0.04	1.31		4704.86		4621.84		0.00	-0.25	4621.59	
52246	M				62.64		2.3556		6.136				85129.66
		1.942	-0.26	0.25		23098.66		22691.05		0.02	-0.25	22690.82	
97137	M				62.63		2.3514		6.144				107820.48
		0.190	-0.31	0.40		17644.79		17333.36		0.00	0.51	17333.87	
97138	K				62.63		2.3478		6.144				125154.34
		0.012	0.00	0.10		1182.03		1161.17		0.00	0.00	1161.17	
97139	K				62.63		2.3475		6.144				126315.51
		23.158	-0.34	9.09		50858.65		49960.93		-0.03	-2.48	49958.42	
						64.1 A AAVASAKSA-LEHMIVAARA 2000.47							
97325	K				61.65		2.3223		6.731				86052.54
		0.007	0.02	-0.13		-1717.94		-1687.57		0.00	-0.02	-1687.59	
97324	K				61.65		2.3226		6.731				84364.95
		0.253	0.24	-0.18		-21927.51		-21539.94		0.00	-0.83	-21540.77	
97329	M				61.65		2.3269		6.732				62824.18
		1.039	-0.23	-0.58		-6583.74		-6467.39		0.00	1.17	-6466.22	
3959	M				61.67		2.3285		6.730				56357.95
		0.900	0.11	-0.10		1645.70		1616.61		0.00	-0.05	1616.56	
60101	M				61.70		2.3283		6.725				57974.51
		1.700	-0.02	1.10		-7205.25		-7077.93		0.00	-0.09	-7078.02	
66053	S				61.75		2.3306		6.715				50896.49
		0.008	-0.01	0.10		1034.21		1015.94		0.00	0.00	1015.94	
532103	S				61.75		2.3305		6.714				51912.43
		1.014	-0.02	0.21		2748.68		2700.11		0.00	-0.06	2700.05	
60102	K				61.79		2.3308		6.708				54612.48
		0.795	-0.23	0.66		4958.75		4871.14		0.00	-0.04	4871.10	
532104	M				61.81		2.3302		6.703				59483.57
		0.871	0.03	0.71		194.63		191.20		0.00	-0.05	191.15	
60103	M				61.84		2.3307		6.699				59674.72
		1.671	0.07	0.80		-1911.39		-1877.62		0.00	-0.09	-1877.71	
532105	M				61.89		2.3309		6.688				57797.00
		1.948	0.06	0.74		-1240.68		-1218.76		0.01	-0.11	-1218.86	
60104	M				61.94		2.3325		6.674				56578.15
		1.438	0.05	-0.19		-4749.89		-4665.97		0.01	-0.08	-4666.04	
60105	M				61.98		2.3343		6.663				51912.11
		2.595	-0.04	3.58		20103.61		19748.45		0.01	-0.14	19748.32	
60106	K				62.06		2.3318		6.640				71660.41

1	2	3	4	5	6	7	8	9	10	11	12	13	14
60106	K				62.06		2.3318		6.640				71660.41
		1.536	0.30	-0.65		-9083.57		-8923.09		0.01	-0.09	-8923.17	
532108	K				62.10		2.3342		6.627				62737.26
		0.005	0.00	0.00		277.00		272.10		0.00	0.00	272.10	
99201	K				62.10		2.3342		6.627				63009.36
		2.126	0.08	2.65		-606.54		-595.82		0.01	-0.12	-595.93	
60107	M				62.16		2.3368		6.608				62413.42
		1.476	-0.02	2.04		14223.54		13972.30		0.01	-0.08	13972.23	
60108	M				62.18		2.3355		6.596				76385.66
		0.969	0.08	0.42		20026.54		19672.76		0.00	-0.05	19672.71	
523101	M				62.20		2.3327		6.588				96058.36
		0.737	0.09	-0.39		3934.42		3864.91		0.00	-0.04	3864.87	
60109	K				62.22		2.3327		6.582				99923.23
		1.280	0.28	2.03		-27844.22		-27352.37		0.01	-0.07	-27352.43	
60110	M				62.25		2.3391		6.571				72570.80
		1.176	0.00	1.22		-2977.04		-2924.47		0.01	-0.07	-2924.53	
99203	S				62.28		2.3407		6.561				69646.27
		0.990	0.14	0.28		-6905.44		-6783.51		0.00	-0.06	-6783.57	
AP1201	P				62.31		2.3426		6.551				62862.71
		1.120	-0.04	3.24		186.84		183.54		0.00	-0.06	183.48	
AP1100	P				62.35		2.3430		6.541				63046.19
		1.764	0.07	0.28		14.79		14.53		0.01	-0.10	14.44	
99204	S				62.40		2.3453		6.525				63060.63
		2.010	0.02	2.67		2573.08		2527.66		0.01	-0.11	2527.56	
99205	M				62.46		2.3467		6.509				65588.20
		2.448	-0.01	1.64		-2054.59		-2018.32		0.01	-0.14	-2018.45	
60112	M				62.54		2.3499		6.490				63569.75
		1.605	-0.15	1.81		10144.96		9965.90		0.00	-0.09	9965.81	
60113	M				62.59		2.3488		6.481				73535.56
		1.534	0.10	2.10		-6218.17		-6108.42		0.01	-0.09	-6108.50	
60114	K				62.64		2.3510		6.469				67427.06
		2.566	-0.05	2.85		3653.59		3589.11		0.01	-0.14	3588.98	
523108	M				62.72		2.3521		6.451				71016.04
		1.735	-0.03	1.56		3127.63		3072.43		0.01	-0.10	3072.34	
60115	K				62.76		2.3530		6.435				74088.39
		1.294	-0.01	1.83		-422.16		-414.71		0.00	-0.07	-414.78	
60116	K				62.80		2.3543		6.426				73673.61
		1.677	0.08	0.43		-1608.20		-1579.83		0.01	-0.09	-1579.91	
99208	K				62.86		2.3559		6.413				72093.70
		2.625	0.07	3.47		7632.07		7497.41		0.01	-0.15	7497.27	
60118	M				62.94		2.3574		6.390				79590.97
		1.578	-0.12	-0.04		9147.19		8985.81		0.01	-0.09	8985.73	
60119	M				62.99		2.3569		6.378				88576.71
		1.536	-0.11	0.04		8503.65		8353.62		0.01	-0.09	8353.54	
99202	K				63.04		2.3568		6.366				96930.25
		48.026	0.80	36.20		11074.57		10879.82		0.18	-2.29	10877.71	

64.1 B LEHMIVAARA-PELLO 1999.49

99202	K				63.04		2.3568		6.366				96930.25
		1.200	-0.19	-0.70		-12806.95		-12581.02		0.00	-0.07	-12581.09	
60121	M				63.06		2.3610		6.356				84349.16
		1.445	0.38	-1.99		17639.09		17327.94		-0.01	-0.08	17327.85	
99206	K				63.09		2.3590		6.346				101677.01
		1.441	-0.55	0.91		-18731.67		-18401.27		-0.01	-0.08	-18401.36	
99207	S				63.14		2.3641		6.334				83275.64
		2.866	-0.03	-0.20		3593.60		3530.23		-0.01	-0.16	3530.06	
532201	M				63.22		2.3671		6.313				86805.70
		1.552	-0.13	0.54		10177.37		9997.91		-0.01	0.00	9997.90	
99209	K				63.26		2.3661		6.301				96803.60
		0.030	0.00	0.00		-67.86		-66.66		0.00	0.00	-66.66	
99210	K				63.26		2.3661		6.301				96736.94
		8.534	-0.52	-1.44		-196.43		-192.88		-0.04	-0.39	-193.31	

1	2	3	4	5	6	7	8	9	10	11	12	13	14
						64.2 A PELLO-TÖRMÄSNIVA 1999.64							
99210	K				63.26		2.3661		6.301				96736.94
		2.825	-0.06	-2.24		-8342.54		-8195.45		-0.01	-0.03	-8195.49	
60124	M				63.34		2.3692		6.286				88541.45
		2.226	-0.07	0.21		1244.77		1222.82		0.00	-0.02	1222.80	
60125	M				63.41		2.3708		6.274				89764.25
		1.854	0.09	-0.91		10957.50		10764.34		0.00	-0.02	10764.32	
60127	M				63.46		2.3701		6.265				100528.57
		0.913	0.04	0.04		-4925.49		-4838.66		0.00	-0.01	-4838.67	
IV59008	M				63.49		2.3718		6.261				95689.90
		1.609	0.05	0.10		-2187.98		-2149.41		0.00	-0.02	-2149.43	
60128	M				63.54		2.3732		6.253				93540.49
		2.379	-0.07	0.04		-4640.75		-4558.95		0.00	-0.02	-4558.97	
60129	K				63.59		2.3734		6.248				88981.51
		1.022	-0.07	0.68		2190.12		2151.52		0.00	-0.01	2151.51	
60130	K				63.61		2.3729		6.246				91133.02
		2.303	0.10	-0.18		4510.71		4431.19		-0.01	-0.02	4431.16	
60131	M				63.68		2.3711		6.231				95564.18
		4.309	0.21	1.05		8697.51		8544.17		-0.01	-0.04	8544.12	
60132	M				63.81		2.3676		6.210				104108.29
		2.813	-0.02	0.90		2456.75		2413.43		0.00	-0.03	2413.40	
60133	M				63.88		2.3689		6.200				106521.69
		1.967	-0.02	0.13		1845.28		1812.75		0.00	-0.02	1812.73	
60134	M				63.93		2.3690		6.191				108334.41
		1.028	-0.06	0.19		2721.71		2673.73		0.00	-0.01	2673.72	
60135	M				63.95		2.3681		6.189				111008.13
		1.778	0.11	-0.10		-9212.34		-9049.92		0.00	-0.02	-9049.94	
60136	K				63.99		2.3697		6.186				101958.18
		1.048	-0.01	0.75		2301.86		2261.28		0.00	-0.01	2261.27	
60137	M				64.01		2.3694		6.183				104219.45
		1.890	0.04	-0.21		13835.77		13591.82		0.00	-0.02	13591.80	
AP14	P				64.06		2.3663		6.172				117811.25
		2.682	-0.04	1.83		1846.32		1813.76		-0.01	-0.03	1813.72	
AP16	P				64.14		2.3665		6.157				119624.98
		3.143	0.06	-0.44		92.49		90.86		0.00	-0.03	90.83	
IV59016X	M				64.22		2.3680		6.144				119715.80
		1.388	-0.03	0.54		3253.66		3196.29		0.00	-0.01	3196.28	
60138	M				64.26		2.3680		6.133				122912.08
		1.742	0.02	0.01		4127.77		4054.99		0.00	-0.02	4054.97	
60139	K				64.32		2.3678		6.122				126967.04
		1.710	0.23	0.13		-1531.65		-1504.65		0.00	-0.02	-1504.67	
99211	K				64.36		2.3688		6.114				125462.37
		1.653	0.11	0.13		20409.63		20049.75		0.00	-0.02	20049.73	
60141	M				64.41		2.3654		6.104				145512.11
		2.239	-0.52	1.26		5498.54		5401.59		0.00	-0.02	5401.57	
99212	K				64.47		2.3691		6.093				150913.67
		1.267	-0.19	-0.09		-22988.31		-22583.09		0.00	-0.01	-22583.10	
60142	M				64.50		2.3760		6.088				128330.57
		1.172	0.02	0.39		-3889.36		-3820.82		0.00	-0.01	-3820.83	
60143	K				64.53		2.3777		6.082				124509.74
		1.427	0.03	-0.70		8938.95		8781.42		0.00	-0.01	8781.41	
60144	K				64.57		2.3777		6.074				133291.14
		1.749	-0.08	0.53		7389.22		7259.00		-0.01	-0.02	7258.97	
AP1901	P				64.62		2.3782		6.059				140550.12
		2.146	-0.11	1.87		-3673.43		-3608.71		-0.01	-0.02	-3608.74	
96M9602	M				64.66		2.3811		6.040				136941.38
		1.907	-0.03	0.71		-4209.24		-4135.09		-0.01	-0.02	-4135.12	
60146	M				64.72		2.3859		6.025				132806.26
		2.512	0.06	-0.64		15328.66		15058.65		0.00	-0.03	15058.62	
60147	M				64.78		2.3848		6.013				147864.89
		2.377	-0.03	0.74		-5739.05		-5637.96		-0.01	-0.02	-5637.99	
IV59058X	M				64.86		2.3869		5.993				142226.88
		3.495	0.07	-0.45		-3157.42		-3101.79		-0.01	-0.04	-3101.84	
60148	K				64.94		2.3843		5.964				139125.05
		62.573	-0.17	6.27		43149.65		42388.84		-0.09	-0.63	42388.12	

1	2	3	4	5	6	7	8	9	10	11	12	13	14
						64.2 B TÖRMÄSNIVA 2000.51							
60148	K				64.94		2.3843		5.964				139125.05
		0.407	-0.03	0.27		13778.32		13535.59		0.00	0.00	13535.59	
60149	M				64.94		2.3822		5.963				152660.63
		0.398	0.03	0.04		-13467.52		-13230.27		0.00	-0.01	-13230.28	
56210	K				64.94		2.3852		5.961				139430.36
		0.805	0.00	0.31		310.79		305.31		0.00	-0.01	305.30	
						65.1 TÖRMÄSNIVA-KOLARI 2000.52							
56210	K				64.94		2.3852		5.961				139430.36
		0.398	-0.03	0.04		13467.52		13230.28		0.00	0.00	13230.28	
60149	M				64.94		2.3822		5.963				152660.63
		2.696	0.01	0.73		-3586.47		-3523.29		0.01	-0.01	-3523.29	
60150	M				64.96		2.3819		5.949				149137.34
		1.644	-0.13	-0.93		6015.71		5909.72		0.00	-0.01	5909.71	
IV59024	M				64.97		2.3815		5.942				155047.05
		0.276	0.01	-0.34		-2040.15		-2004.20		0.00	0.00	-2004.20	
60151	M				64.97		2.3819		5.940				153042.85
		1.707	-0.24	-0.85		-9197.69		-9035.66		0.01	-0.01	-9035.66	
60152	M				64.99		2.3864		5.930				144007.19
		2.175	0.09	-0.13		4676.75		4594.38		0.01	-0.01	4594.38	
60153	M				65.05		2.3853		5.911				148601.57
		0.102	-0.01	-0.11		-1810.77		-1778.87		0.00	0.00	-1778.87	
IV59025	M				65.05		2.3857		5.910				146822.70
		1.266	-0.04	-0.65		-2641.46		-2594.93		0.01	-0.01	-2594.93	
60154	M				65.09		2.3863		5.898				144227.78
		2.158	-0.07	0.22		-2159.12		-2121.09		0.01	0.01	-2121.07	
60155	K				65.15		2.3882		5.881				142106.70
		0.020	0.00	0.28		-400.66		-393.61		0.00	0.00	-393.61	
60156	K				65.15		2.3883		5.881				141713.09
		12.442	-0.41	-1.74		2323.66		2282.74		0.05	-0.04	2282.75	
						65.2 A KOLARI-KIHLANKI 2000.47							
60156	K				65.15		2.3883		5.881				141713.09
		0.020	0.00	0.28		400.66		393.61		0.00	0.00	393.61	
60155	K				65.15		2.3882		5.881				142106.70
		1.201	0.02	-0.26		4481.26		4402.33		0.00	-0.03	4402.30	
532401	M				65.16		2.3858		5.875				146509.00
		1.033	0.00	0.81		-1599.80		-1571.62		0.00	-0.03	-1571.65	
61101	M				65.17		2.3867		5.872				144937.36
		2.462	0.05	0.61		3070.12		3016.05		0.01	-0.07	3015.99	
532452	M				65.22		2.3880		5.852				147953.34
		2.541	0.02	0.71		-1065.46		-1046.69		0.01	-0.07	-1046.75	
61102	M				65.29		2.3912		5.832				146906.59
		2.084	-0.03	-0.69		4227.22		4152.79		0.00	-0.06	4152.73	
61103	M				65.32		2.3963		5.829				151059.33
		1.147	0.09	0.72		6275.64		6165.17		0.00	-0.03	6165.14	
99301	M				65.35		2.3997		5.823				157224.46
		2.260	0.02	1.54		475.56		467.20		0.01	-0.06	467.15	
61104	M				65.41		2.3921		5.805				157691.61
		1.209	0.03	0.01		-3851.56		-3783.75		0.01	-0.03	-3783.77	
IV59029	M				65.48		2.3993		5.786				153907.84
		1.361	-0.11	-0.01		5448.42		5352.53		0.00	-0.04	5352.49	
61105	K				65.49		2.3995		5.781				159260.32
		2.083	0.08	0.65		8798.27		8643.39		0.01	-0.06	8643.34	
IV59030	M				65.54		2.3930		5.766				167903.66
		0.826	-0.23	-0.02		-5641.67		-5542.35		0.00	-0.02	-5542.37	
IV59031	K				65.55		2.3949		5.764				162361.29
		0.058	0.01	0.15		638.31		627.08		0.00	0.00	627.08	
61106	K				65.55		2.3948		5.764				162988.37
		1.856	-0.08	1.75		-5140.38		-5049.88		0.00	-0.05	-5049.93	
61107	K				65.58		2.3934		5.759				157938.44

1	2	3	4	5	6	7	8	9	10	11	12	13	14
61107	K				65.58		2.3934		5.759				157938.44
		0.022	0.00	-0.06		-36.79		-36.15		0.00	0.00	-36.15	
HT58A	K				65.58		2.3934		5.759				157902.29
		1.802	-0.13	-1.07		3406.00		3346.02		0.00	-0.05	3345.97	
00101	M				65.62		2.3907		5.750				161248.26
		0.161	-0.01	-0.67		469.55		461.28		0.00	0.00	461.28	
61108	M				65.63		2.3907		5.748				161709.52
		0.758	0.00	-0.13		-478.63		-470.20		0.00	-0.02	-470.22	
AP0400	S				65.63		2.3910		5.748				161239.31
		1.366	-0.05	-0.74		456.36		448.33		0.00	-0.04	448.29	
61109	K				65.66		2.3923		5.742				161687.59
		2.646	-0.44	-3.36		36025.02		35390.61		0.01	-0.07	35390.55	
IV59034	M				65.74		2.3871		5.718				197078.14
		1.364	-0.28	-1.94		14227.82		13977.23		0.01	-0.04	13977.20	
61110	M				65.78		2.3872		5.706				211055.35
		1.854	0.29	-1.62		-19528.95		-19185.04		0.01	-0.05	-19185.08	
IV59035	M				65.83		2.3914		5.688				191870.27
		0.095	0.04	0.00		-2220.91		-2181.80		0.00	0.00	-2181.80	
61111	M				65.83		2.3919		5.687				189688.47
		2.104	0.14	-3.72		-11480.20		-11278.07		0.01	-0.06	-11278.12	
IV59036	K				65.89		2.3945		5.666				178410.35
		1.646	-0.49	-1.95		28027.76		27534.25		0.01	-0.05	27534.21	
99302	K				65.94		2.3900		5.651				205944.56
		1.102	0.23	-0.07		-11865.41		-11656.48		0.00	-0.03	-11656.51	
61112	M				65.97		2.3931		5.641				194288.05
		0.739	-0.02	0.16		3876.88		3808.61		0.00	-0.02	3808.59	
IV59037	M				65.98		2.3924		5.638				198096.64
		1.053	0.05	0.03		-5384.22		-5289.42		0.00	-0.03	-5289.45	
61113	M				66.01		2.3933		5.629				192807.19
		1.338	0.06	0.24		-1531.36		-1504.40		0.00	-0.04	-1504.44	
IV59038	M				66.04		2.3922		5.622				191302.76
		1.077	0.11	-1.06		-13365.09		-13129.77		0.00	-0.03	-13129.80	
IV59039	K				66.07		2.3936		5.612				178172.97
		39.268	-0.63	-9.71		37114.43		36460.85		0.10	-1.08	36459.87	

65.2 B KIHLANKI-KANGOSJÄRVI 2000.45

IV59039	K				66.07		2.3936		5.612				178172.97
		2.281	0.10	0.53		19015.91		18681.09		0.01	-0.06	18681.04	
61114	M				66.13		2.3913		5.589				196853.99
		2.411	-0.02	0.84		-15051.01		-14786.03		0.01	-0.07	-14786.09	
95M9465	K				66.19		2.3967		5.568				182067.91
		1.496	0.10	0.41		14112.98		13864.55		0.01	-0.04	13864.52	
99117	M				66.24		2.3964		5.550				195932.43
		1.197	0.33	1.60		14225.47		13975.05		0.01	-0.03	13975.03	
IV59041	M				66.27		2.3955		5.537				209907.45
		1.808	0.45	-0.70		40551.06		39837.07		0.01	-0.05	39837.03	
61117	M				66.32		2.3894		5.519				249744.47
		0.802	-0.03	-0.19		7931.52		7791.84		0.00	-0.02	7791.82	
99116	M				66.34		2.3886		5.512				257536.29
		1.760	0.05	0.43		-2515.15		-2470.86		0.01	-0.05	-2470.90	
61118	M				66.39		2.3917		5.492				255065.39
		1.556	0.12	1.84		8375.01		8227.55		0.01	-0.04	8227.52	
99115	M				66.44		2.3931		5.473				263292.91
		2.061	-0.01	-0.18		-5468.95		-5372.67		0.01	-0.06	-5372.72	
61120	K				66.50		2.3981		5.449				257920.19
		1.446	-0.03	0.22		27480.13		26996.38		0.01	-0.04	26996.35	
61121	M				66.55		2.3942		5.432				284916.53
		1.212	0.08	-1.04		-10938.91		-10746.34		0.01	-0.03	-10746.36	
61122	M				66.58		2.3975		5.420				274170.17
		1.963	0.21	-0.24		-10613.16		-10426.35		0.01	-0.05	-10426.39	
IV59046	M				66.65		2.3998		5.393				263743.77
		1.762	0.07	-0.01		-8864.93		-8708.92		0.01	-0.05	-8708.96	
99114	K				66.69		2.4026		5.376				255034.82
		1.637	0.00	-0.27		292.31		287.16		0.01	-0.05	287.12	
IV59047	M				66.74		2.4034		5.356				255321.94

1	2	3	4	5	6	7	8	9	10	11	12	13	14
IV59047	M				66.74		2.4034		5.356				255321.94
		2.315	0.02	0.62		15891.16		15611.51		0.01	-0.06	15611.46	
60218	K				66.80		2.4017		5.333				270933.40
		25.707	1.44	3.86		94423.45		92761.01		0.14	-0.70	92760.45	

65.2 C KANGOSJÄRVI-MUONIO 2000.49

60218	K				66.80		2.4017		5.333				270933.40
		0.040	-0.01	-0.13		471.11		462.82		0.00	0.00	462.82	
60219	K				66.80		2.4017		5.333				271396.22
		0.180	0.01	0.24		2115.96		2078.72		0.00	0.00	2078.72	
60216	K				66.81		2.4011		5.329				273474.93
		2.404	0.21	-0.46		-21040.48		-20670.21		0.01	-0.07	-20670.27	
60215	K				66.85		2.4029		5.313				252804.66
		1.338	0.13	1.14		-12934.92		-12707.32		0.01	-0.04	-12707.35	
60214	K				66.88		2.4052		5.300				240097.32
		1.738	0.21	1.31		-13272.76		-13039.25		0.01	-0.05	-13039.29	
60213	M				66.92		2.4085		5.287				227058.04
		1.064	0.07	1.65		3130.34		3075.28		0.00	-0.03	3075.25	
IV59050	M				66.94		2.4098		5.280				230133.28
		1.144	-0.05	0.13		-7483.34		-7351.72		0.01	-0.03	-7351.74	
60212	M				66.96		2.4130		5.270				222781.55
		1.549	-0.02	0.29		-207.18		-203.54		0.01	-0.04	-203.57	
60211	M				67.00		2.4158		5.253				222577.97
		0.594	-0.03	0.46		2958.22		2906.20		0.00	-0.02	2906.18	
IV59051	M				67.02		2.4155		5.248				225484.15
		1.725	-0.03	0.04		9704.70		9534.05		0.01	-0.05	9534.01	
99113	M				67.06		2.4162		5.229				235018.17
		1.402	-0.13	0.11		-10922.19		-10730.16		0.01	-0.04	-10730.19	
IV59052	M				67.10		2.4196		5.214				224287.98
		0.042	-0.01	0.03		651.13		639.69		0.00	0.00	639.69	
60209	M				67.10		2.4194		5.214				224927.67
		1.616	0.17	0.64		-14037.02		-13790.26		0.01	-0.04	-13790.29	
60208	M				67.15		2.4213		5.194				211137.38
		2.252	0.36	2.51		17637.82		17327.73		0.01	-0.06	17327.68	
AP24	M				67.20		2.4171		5.173				228465.05
		0.121	-0.07	-0.01		5974.41		5869.36		0.00	0.00	5869.36	
60207	K				67.20		2.4159		5.173				234334.41
		1.293	0.18	1.09		-12719.75		-12496.10		0.01	-0.04	-12496.13	
99112	M				67.22		2.4173		5.161				221838.29
		2.378	0.16	1.48		14893.22		14631.32		0.01	-0.07	14631.26	
99111	M				67.29		2.4126		5.134				236469.55
		1.605	-0.13	1.16		-4615.45		-4534.28		0.01	-0.04	-4534.31	
IV59055	M				67.33		2.4134		5.114				231935.24
		0.804	-0.03	-0.53		6335.11		6223.70		0.00	0.52	6224.22	
AP2002	P				67.36		2.4126		5.105				238159.45
		1.583	-0.17	-0.79		2085.45		2048.78		0.01	1.02	2049.81	
99106	K				67.40		2.4132		5.085				240209.28
		0.150	0.01	-0.14		3929.01		3859.92		0.00	0.05	3859.97	
99107	K				67.41		2.4125		5.083				244069.24
		25.022	0.83	10.22		-27346.60		-26865.26		0.13	0.97	-26864.16	

66 A SIRKKA-PÖNTSÖ 1998.74

98229	K				66.83		2.4143		5.208				201084.33
		0.010	0.00	0.06		-195.92		-192.47		0.00	0.00	-192.47	
98230	K				66.83		2.4144		5.208				200891.86
		1.212	0.01	2.20		3407.95		3348.04		-0.02	-0.15	3347.87	
AP2001	M				66.87		2.4219		5.195				204239.74
		1.655	0.25	0.92		-19230.11		-18892.17		-0.01	-0.21	-18892.39	
75204	S				66.90		2.4311		5.184				185347.35
		1.378	0.19	-0.27		3957.09		3887.57		-0.01	-0.17	3887.39	
54290	M				66.93		2.4317		5.179				189234.73
		1.049	0.03	0.32		392.39		385.49		-0.01	-0.13	385.35	
54291	K				66.95		2.4317		5.171				189620.09

1	2	3	4	5	6	7	8	9	10	11	12	13	14
54291	K				66.95		2.4317		5.171				189620.09
		1.296	0.03	-0.05		13288.86		13055.39		-0.01	-0.16	13055.22	
55317	M				66.98		2.4310		5.163				202675.30
		1.588	0.03	-0.53		23008.67		22604.37		-0.01	-0.20	22604.16	
55318	M				67.02		2.4263		5.155				225279.45
		2.100	-0.09	-0.65		-11285.52		-11087.20		-0.01	-0.26	-11087.47	
55319	M				67.06		2.4276		5.144				214191.98
		3.951	-0.10	-0.54		19837.75		19488.99		-0.04	-0.49	19488.46	
55321	M				67.16		2.4105		5.110				233680.44
		1.461	-0.06	-0.43		11329.32		11130.00		-0.01	-0.18	11129.81	
55322	M				67.20		2.4020		5.099				244810.24
		2.943	-0.14	0.30		116.05		114.00		-0.02	-0.37	113.61	
98231	S				67.25		2.3986		5.085				244923.86
		2.112	0.11	0.93		13105.87		12875.13		-0.01	-0.26	12874.86	
55325	M				67.28		2.3887		5.078				257798.71
		3.461	0.03	0.97		7202.77		7075.92		0.02	-0.43	7075.51	
98232	K				67.27		2.3898		5.090				264874.22
		0.011	0.00	0.02		-206.14		-202.51		0.00	0.00	-202.51	
55327	K				67.27		2.3898		5.090				264671.71
		24.227	0.29	3.25		64729.03		63590.55		-0.14	-3.01	63587.40	

66 B PÖNTSÖ-LOMPOLOVAARA 1999.48

55327	K				67.27		2.3898		5.090				264671.71
		1.552	-0.14	0.11		40291.91		39582.21		0.00	-0.19	39582.02	
99101	M				67.26		2.3824		5.097				304253.72
		1.504	0.13	2.40		-15173.73		-14906.45		0.00	-0.19	-14906.64	
99102	M				67.25		2.3878		5.104				289347.08
		1.374	-0.03	1.23		5787.47		5685.54		0.00	-0.17	5685.37	
55330	M				67.24		2.3875		5.112				295032.45
		1.136	-0.13	0.69		6433.89		6320.57		0.00	-0.14	6320.43	
55331	K				67.24		2.3887		5.116				301352.88
		2.442	0.14	3.02		-9829.35		-9656.24		0.01	-0.31	-9656.54	
55332	M				67.21		2.3877		5.131				291696.34
		0.709	-0.01	-0.38		-5654.85		-5555.25		0.00	-0.09	-5555.34	
99105	K				67.20		2.3873		5.137				286141.01
		2.361	0.20	0.65		-22602.01		-22203.93		0.01	-0.30	-22204.22	
55334	K				67.14		2.3865		5.164				263936.79
		1.379	-0.18	0.93		8899.80		8743.03		0.01	-0.17	8742.87	
55336	M				67.10		2.3838		5.179				272679.66
		0.119	-0.06	0.02		3061.05		3007.12		0.00	-0.01	3007.11	
55335	M				67.10		2.3832		5.180				275686.76
		1.737	0.09	4.53		-6988.25		-6865.14		0.01	-0.22	-6865.35	
99103	M				67.07		2.3856		5.195				268821.42
		0.099	-0.02	0.21		4840.22		4754.96		0.00	-0.01	4754.95	
56101	M				67.07		2.3845		5.196				273576.36
		1.659	-0.13	0.37		-7458.33		-7326.96		0.00	-0.21	-7327.17	
99104	K				67.05		2.3865		5.205				266249.21
		1.233	-0.28	1.91		16793.24		16497.42		0.00	-0.15	16497.27	
856152	M				67.05		2.3823		5.207				282746.47
		1.664	0.46	3.53		-26900.67		-26426.81		0.00	-0.21	-26427.02	
56104	M				67.05		2.3870		5.212				256319.45
		1.328	-0.25	1.18		16932.92		16634.65		0.00	-0.17	16634.48	
56105	M				67.06		2.3822		5.208				272953.94
		1.055	-0.33	0.94		15647.68		15371.97		0.00	-0.13	15371.84	
56106	M				67.09		2.3781		5.199				288325.77
		1.653	0.05	1.35		-6394.69		-6282.01		-0.01	-0.21	-6282.23	
56107	M				67.14		2.3795		5.183				282043.56
		1.832	0.13	0.99		1870.13		1837.18		-0.01	-0.23	1836.94	
56109	M				67.17		2.3799		5.173				283880.49
		1.890	0.22	0.81		-21261.15		-20886.61		0.00	-0.24	-20886.85	
56110	M				67.19		2.3869		5.165				262993.65
		1.571	0.03	-0.77		-2805.27		-2755.87		-0.01	-0.20	-2756.08	
56111	M				67.23		2.3898		5.151				260237.58
		1.464	-0.19	-1.97		12820.59		12594.83		-0.01	-0.18	12594.64	
AP0702	M				67.27		2.3909		5.138				272832.20

1	2	3	4	5	6	7	8	9	10	11	12	13	14
AP0702	M				67.27		2.3909		5.138				272832.20
		0.246	-0.02	-0.72		426.70		419.18		0.00	-0.03	419.15	
56112	M				67.26		2.3907		5.140				273251.35
		1.737	-0.23	-0.87		10939.86		10747.21		0.00	-0.22	10746.99	
99108	K				67.28		2.3906		5.133				283998.34
		1.522	-0.79	1.12		48504.70		47650.42		0.00	-0.19	47650.23	
99109	M				67.30		2.3847		5.125				331648.57
		1.752	0.16	0.41		-15856.75		-15577.48		0.00	-0.22	-15577.70	
56115	M				67.32		2.3904		5.117				316070.87
		0.112	0.12	0.08		-7026.17		-6902.45		0.00	-0.01	-6902.46	
99110	K				67.33		2.3918		5.116				309168.40
		1.753	0.45	-1.15		-46555.35		-45735.79		0.00	-0.22	-45736.01	
56116	M				67.34		2.4018		5.112				263432.39
		2.195	0.00	-1.52		-30131.10		-29601.01		-0.01	-0.27	-29601.29	
56117	K				67.36		2.4129		5.102				233831.11
		39.078	-0.61	19.10		-31387.50		-30835.70		-0.01	-4.89	-30840.60	

66 C LOMPOLOVAARA-MUONIO 2000.47

56117	K				67.36		2.4129		5.102				233831.11
		0.748	-0.01	0.23		9104.24		8944.11		0.00	-0.09	8944.02	
56119	M				67.37		2.4115		5.098				242775.12
		1.483	0.03	0.79		-2611.60		-2565.67		0.01	-0.19	-2565.85	
99106	K				67.40		2.4132		5.085				240209.28
		0.150	0.01	-0.14		3929.01		3859.92		0.00	0.05	3859.97	
99107	K				67.41		2.4125		5.083				244069.24
		2.381	0.03	0.88		10421.65		10238.36		0.01	-0.23	10238.14	

67 KITTILÄ-SIRKKA 1998.71

98114	K				66.17		2.3824		5.406				208165.31
		0.013	0.00	0.02		-320.62		-314.97		0.00	0.00	-314.97	
98113	K				66.17		2.3825		5.406				207850.34
		0.303	0.25	-0.01		-16726.49		-16431.84		0.00	0.00	-16431.84	
98115	M				66.17		2.3854		5.404				191418.51
		1.012	0.14	0.53		-17357.75		-17052.03		-0.01	0.20	-17051.84	
98117	S				66.21		2.3885		5.394				174366.67
		1.952	-0.09	0.64		2265.44		2225.55		-0.02	-0.76	2224.77	
98116	M				66.26		2.3901		5.378				176591.43
		1.045	-0.02	0.78		-223.55		-219.61		-0.01	-0.17	-219.79	
75201	M				66.30		2.3900		5.369				176371.63
		1.210	0.00	-1.35		373.39		366.82		-0.01	-0.20	366.61	
AP157	P				66.33		2.3905		5.360				176738.25
		2.300	0.01	1.54		3743.52		3677.61		-0.01	-0.37	3677.23	
742341	P				66.38		2.3959		5.349				180415.48
		1.182	-0.01	0.42		-2908.98		-2857.77		-0.01	-0.19	-2857.97	
54277	M				66.40		2.3974		5.341				177557.51
		0.864	-0.01	-0.12		-2886.46		-2835.66		-0.01	-0.14	-2835.81	
54278	M				66.43		2.3994		5.335				174721.69
		1.674	-0.17	0.34		13217.66		12985.06		-0.02	-0.27	12984.77	
54279	M				66.48		2.4054		5.319				187706.46
		1.772	-0.03	0.63		3257.07		3199.78		-0.02	-0.29	3199.47	
98129	M				66.53		2.4157		5.304				190905.93
		1.684	-0.10	0.98		6393.90		6281.46		-0.02	-0.27	6281.17	
98130	M				66.58		2.4146		5.286				197187.10
		1.101	-0.08	1.58		4795.30		4710.98		-0.01	-0.18	4710.79	
98131	M				66.61		2.4145		5.275				201897.89
		1.143	-0.10	1.35		2619.30		2573.24		-0.01	-0.19	2573.04	
54282	K				66.64		2.4151		5.264				204470.94
		1.768	-0.16	-0.58		15203.40		14936.00		-0.02	-0.29	14935.69	
98132	K				66.70		2.4087		5.246				219406.63
		0.807	0.20	0.62		-17860.56		-17546.38		-0.01	-0.13	-17546.52	
54284	M				66.72		2.4093		5.239				201860.11
		2.607	-0.12	1.76		6317.67		6206.55		-0.02	-0.42	6206.11	
54286	K				66.79		2.4103		5.221				208066.21

1	2	3	4	5	6	7	8	9	10	11	12	13	14
54286	K				66.79		2.4103		5.221				208066.21
		1.537	-0.01	0.07		-7302.52		-7174.08		-0.02	-0.25	-7174.35	
98230	K				66.83		2.4144		5.208				200891.86
		0.010	0.00	0.06		195.92		192.47		0.00	0.00	192.47	
98229	K				66.83		2.4143		5.208				201084.33
		23.984	-0.30	9.26		-7204.37		-7076.83		-0.23	-3.92	-7080.98	

68.1 A SINETTÄ-JÄÄSKÖ 1998.57

97139	K				62.63		2.3475		6.144				126315.51
		0.012	0.00	0.10		-1182.03		-1161.17		0.00	0.00	-1161.17	
97138	K				62.63		2.3478		6.144				125154.34
		0.172	-0.14	0.20		-17645.55		-17334.10		0.00	0.23	-17333.87	
97137	M				62.63		2.3514		6.144				107820.48
		0.922	0.05	0.33		-21493.42		-21114.14		-0.01	-0.06	-21114.21	
KP8668	S				62.65		2.3559		6.139				86706.27
		3.286	-0.07	-1.03		26.91		26.43		-0.01	-0.54	25.88	
53439	M				62.74		2.3557		6.131				86732.16
		1.434	0.16	-0.35		6060.60		5953.68		-0.01	-0.24	5953.43	
98209	M				62.77		2.3577		6.127				92685.59
		3.647	-0.04	0.63		-4438.88		-4360.58		-0.04	-0.60	-4361.22	
53441	M				62.86		2.3588		6.101				88324.37
		1.644	0.01	-0.13		-418.70		-411.31		-0.01	-0.27	-411.59	
53442	M				62.91		2.3599		6.091				87912.77
		0.094	0.00	-0.15		-597.26		-586.73		0.00	-0.02	-586.75	
98210	M				62.91		2.3601		6.090				87326.03
		1.999	0.03	-1.41		-1326.60		-1303.20		-0.01	-0.33	-1303.54	
53443	M				62.97		2.3619		6.081				86022.48
		1.214	0.03	-1.16		2780.61		2731.57		-0.01	-0.20	2731.36	
53444	M				63.00		2.3624		6.076				88753.84
		4.350	0.00	2.09		-409.08		-401.87		-0.03	-0.72	-402.62	
53445	M				63.13		2.3668		6.052				88351.22
		1.822	0.02	-1.17		9737.72		9566.01		-0.01	-0.30	9565.70	
53446	M				63.18		2.3667		6.044				97916.91
		1.501	-0.07	-1.95		-2897.41		-2846.32		-0.01	-0.25	-2846.58	
53447	M				63.23		2.3699		6.036				95070.34
		1.410	0.17	-1.34		235.74		231.58		-0.01	-0.23	231.34	
53448	K				63.27		2.3707		6.031				95301.67
		0.010	0.00	0.17		1714.29		1684.07		0.00	0.00	1684.07	
53449	K				63.27		2.3704		6.031				96985.74
		1.806	-0.05	1.96		-4546.35		-4466.20		-0.02	-0.30	-4466.52	
53450	M				63.32		2.3728		6.019				92519.22
		1.591	-0.01	-0.28		4878.74		4792.74		-0.02	-0.26	4792.46	
98211	M				63.37		2.3723		6.007				97311.68
		1.966	0.09	0.02		7599.80		7465.82		-0.02	-0.33	7465.47	
53451	M				63.41		2.3710		5.992				104777.15
		1.210	-0.12	-0.49		-8487.76		-8338.14		-0.01	-0.20	-8338.35	
53452	M				63.44		2.3730		5.982				96438.80
		3.592	0.11	0.94		20664.69		20300.42		-0.01	-0.59	20299.82	
53453	M				63.53		2.3710		5.973				116738.62
		3.430	-0.28	-0.32		-7661.09		-7526.04		-0.02	-0.57	-7526.63	
53455	M				63.62		2.3744		5.963				109211.99
		1.850	0.04	0.51		1031.35		1013.17		-0.01	-0.31	1012.85	
98212	M				63.67		2.3757		5.952				110224.85
		1.730	0.03	0.23		-2081.56		-2044.88		-0.02	-0.29	-2045.19	
98213	S				63.72		2.3762		5.941				108179.67
		1.509	0.15	0.39		12945.92		12717.75		-0.01	-0.25	12717.49	
98214	M				63.76		2.3742		5.933				120897.16
		1.678	0.04	0.24		-306.16		-300.77		-0.01	-0.28	-301.06	
53459	M				63.80		2.3744		5.926				120596.11
		2.217	-0.01	0.41		-2574.12		-2528.75		-0.01	-0.37	-2529.13	
53460	M				63.86		2.3754		5.922				118066.97
		1.965	0.06	0.07		3804.70		3737.64		0.00	-0.33	3737.31	
53461	K				63.90		2.3749		5.920				121804.30
		0.010	0.00	0.10		191.72		188.35		0.00	0.00	188.35	
53462	K				63.90		2.3748		5.919				121992.65

1	2	3	4	5	6	7	8	9	10	11	12	13	14
53462	K				63.90		2.3748		5.919				121992.65
		1.456	0.25	-0.03		19453.31		19110.41		0.00	-0.24	19110.17	
53463	M				63.93		2.3713		5.916				141102.80
		1.469	0.30	-0.20		22638.31		22239.18		0.00	-0.24	22238.94	
98215	M				63.95		2.3676		5.918				163341.74
		1.758	-0.24	0.94		-21761.61		-21377.96		0.00	-0.29	-21378.25	
98216	M				63.97		2.3727		5.918				141963.50
		1.652	-0.10	0.54		-2449.80		-2406.62		0.00	-0.27	-2406.89	
53466	K				64.00		2.3737		5.917				139556.61
		54.406	0.41	-0.14		13487.04		13250.07		-0.32	-8.65	13241.10	

68.1 B JÄÄSKÖ-LOHINIVA 1998.65

53466	K				64.00		2.3737		5.917				139556.61
		2.021	-0.06	-1.06		-3973.56		-3903.53		0.00	-0.33	-3903.86	
98217	M				64.04		2.3752		5.915				135652.74
		1.638	-0.17	0.46		-6593.28		-6477.09		-0.01	-0.27	-6477.37	
98218	M				64.08		2.3771		5.909				129175.37
		1.873	0.00	0.28		2145.05		2107.25		-0.01	-0.31	2106.93	
53468	M				64.14		2.3768		5.899				131282.30
		1.041	-0.11	0.48		-5655.50		-5555.84		-0.01	-0.17	-5556.02	
98219	K				64.17		2.3784		5.892				125726.28
		2.722	0.12	-0.52		11714.46		11508.02		-0.02	-0.45	11507.55	
53469	M				64.25		2.3764		5.876				137233.83
		1.267	-0.01	0.33		-4166.13		-4092.71		-0.02	-0.21	-4092.94	
906311	S				64.29		2.3780		5.864				133140.89
		2.705	-0.05	0.65		-1526.23		-1499.33		-0.02	-0.45	-1499.80	
AP1202	P				64.37		2.3808		5.849				131641.09
		1.891	0.06	0.54		9378.56		9213.31		-0.01	-0.31	9212.99	
98220	M				64.42		2.3799		5.841				140854.08
		2.774	0.04	-0.68		5291.60		5198.35		-0.01	-0.46	5197.88	
53471	M				64.48		2.3779		5.835				146051.96
		3.025	-0.02	-0.95		10253.98		10073.29		-0.01	-0.50	10072.78	
98221	M				64.55		2.3776		5.827				156124.74
		1.128	-0.02	0.73		-11781.99		-11574.38		0.00	0.02	-11574.36	
53473	M				64.57		2.3807		5.826				144550.38
		0.010	0.00	0.23		26.09		25.63		0.00	0.00	25.63	
53472	K				64.57		2.3806		5.826				144576.01
		0.488	-0.01	0.22		9878.06		9704.01		0.00	0.01	9704.02	
75208	K				64.58		2.3789		5.823				154280.03
		22.583	-0.23	0.71		14991.10		14726.98		-0.12	-3.43	14723.43	

68.2 A LOHINIVA-PAHTAJOKI 1998.68

75208	K				64.58		2.3789		5.823				154280.03
		1.092	-0.19	0.87		6649.06		6531.91		-0.01	-0.21	6531.69	
98224	M				64.62		2.3786		5.815				160811.71
		2.324	-0.11	-0.76		8246.38		8101.07		-0.02	-0.45	8100.60	
75207	M				64.69		2.3786		5.800				168912.31
		1.386	-0.15	-0.51		-5884.14		-5780.46		-0.01	-0.27	-5780.74	
98222	S				64.73		2.3807		5.791				163131.57
		1.534	-0.08	-0.50		5901.43		5797.45		-0.01	-0.30	5797.14	
98223	M				64.78		2.3803		5.779				168928.71
		1.210	0.01	0.95		3057.57		3003.71		-0.01	-0.23	3003.47	
98227	M				64.81		2.3802		5.772				171932.18
		1.724	0.17	0.28		22023.20		21635.12		-0.01	-0.33	21634.78	
98225	M				64.87		2.3771		5.761				193566.95
		1.450	-0.14	0.60		-15599.91		-15325.02		-0.01	-0.28	-15325.31	
98226	M				64.91		2.3805		5.754				178241.64
		2.573	-0.35	0.42		-8107.83		-7964.99		0.00	-0.50	-7965.49	
53476	K				64.93		2.3827		5.755				170276.15
		1.481	0.01	-0.94		-11515.93		-11313.07		-0.01	-0.29	-11313.37	
53477	K				64.96		2.3854		5.744				158962.78
		14.774	-0.83	0.41		4769.83		4685.71		-0.09	-2.86	4682.76	

1	2	3	4	5	6	7	8	9	10	11	12	13	14
						68.2 B PAHTAJOKI-KITTILÄ 1998.64							
53477	K				64.96		2.3854		5.744				158962.78
		0.104	-0.04	0.07		148.87		146.25		0.00	-0.02	146.23	
98228	K				64.96		2.3854		5.744				159109.01
		1.093	-0.01	1.32		15575.10		15300.72		-0.01	-0.21	15300.50	
98127	M				64.99		2.3817		5.735				174409.51
		2.351	-0.11	1.21		5114.71		5024.60		-0.03	-0.45	5024.12	
54248	M				65.05		2.3812		5.716				179433.63
		1.729	-0.09	-0.56		-3957.15		-3887.43		-0.02	-0.33	-3887.78	
54249	M				65.10		2.3833		5.703				175545.85
		0.993	0.14	0.50		-5291.19		-5197.99		-0.01	-0.19	-5198.19	
54250	M				65.13		2.3859		5.695				170347.65
		1.450	-0.02	1.02		5702.80		5602.35		-0.01	-0.28	5602.06	
98126	M				65.18		2.3872		5.685				175949.70
		1.966	-0.04	0.26		6663.14		6545.79		-0.02	-0.38	6545.39	
54252	M				65.23		2.3876		5.672				182495.10
		0.412	-0.02	0.36		1351.30		1327.50		0.00	-0.08	1327.42	
98125	K				65.25		2.3874		5.669				183822.51
		1.127	0.09	0.52		-10065.54		-9888.27		-0.01	-0.22	-9888.50	
54253	M				65.28		2.3895		5.663				173934.02
		1.956	0.03	-0.42		-2984.68		-2932.12		-0.02	-0.38	-2932.52	
98124	M				65.33		2.3897		5.648				171001.50
		1.362	-0.02	0.36		4287.56		4212.05		-0.02	-0.26	4211.77	
54255	M				65.36		2.3896		5.636				175213.27
		1.964	-0.03	0.36		6783.60		6664.14		-0.02	-0.38	6663.74	
54256	M				65.42		2.3890		5.621				181877.01
		1.292	-0.04	0.26		2646.06		2599.46		-0.01	-0.25	2599.20	
54257	K				65.45		2.3887		5.611				184476.21
		1.481	0.05	0.19		4227.30		4152.85		-0.01	-0.29	4152.55	
54258	M				65.49		2.3882		5.600				188628.75
		1.548	0.01	0.93		-13631.52		-13391.45		-0.02	-0.30	-13391.77	
54259	M				65.53		2.3881		5.587				175236.98
		0.975	-0.02	0.08		-5831.86		-5729.15		-0.01	-0.19	-5729.35	
98123	M				65.56		2.3889		5.578				169507.63
		0.978	-0.04	-0.65		-337.88		-331.93		-0.01	-0.19	-332.13	
98121	S				65.59		2.3882		5.570				169175.51
		2.072	-0.08	2.60		7690.19		7554.75		-0.02	-0.40	7554.33	
98122	M				65.65		2.3888		5.553				176729.83
		1.645	0.01	-0.35		-7933.99		-7794.27		-0.01	-0.32	-7794.60	
98120	M				65.69		2.3909		5.545				168935.24
		2.005	-0.10	1.44		15707.89		15431.26		0.00	-0.39	15430.87	
98119	M				65.72		2.3869		5.542				184366.11
		1.424	-0.10	1.69		-12636.99		-12414.46		-0.02	-0.27	-12414.75	
54264	M				65.76		2.3929		5.530				171951.36
		1.558	0.05	0.67		13156.55		12924.90		-0.02	-0.30	12924.58	
54265	M				65.81		2.3904		5.517				184875.92
		3.103	0.01	0.64		-4546.45		-4466.41		-0.04	-0.60	-4467.05	
54267	M				65.90		2.3994		5.489				180408.88
		2.080	0.39	0.48		17482.12		17174.34		-0.02	-0.40	17173.92	
54268	M				65.96		2.3896		5.471				197582.79
		1.720	0.05	0.84		-18754.21		-18423.98		-0.02	-0.33	-18424.33	
915837	M				66.00		2.3941		5.458				179158.47
		1.253	0.04	0.99		235.55		231.40		-0.02	-0.24	231.14	
98118	M				66.04		2.3953		5.445				179389.61
		2.163	-0.12	2.07		13529.44		13291.22		-0.03	-0.42	13290.77	
54271	M				66.11		2.3897		5.425				192680.38
		1.488	-0.07	-0.38		10417.95		10234.45		-0.02	-0.29	10234.14	
54272	M				66.15		2.3839		5.411				202914.52
		0.801	-0.08	0.93		-11702.00		-11495.86		-0.01	-0.15	-11496.02	
98115	M				66.17		2.3854		5.404				191418.51
		0.303	-0.25	-0.01		16726.49		16431.84		0.00	0.00	16431.84	
98113	K				66.17		2.3825		5.406				207850.34
		0.013	0.00	0.02		320.62		314.97		0.00	0.00	314.97	
98114	K				66.17		2.3824		5.406				208165.31
		44.409	-0.41	17.44		50093.77		49211.50		-0.46	-8.51	49202.53	

1	2	3	4	5	6	7	8	9	10	11	12	13	14
						69 SODANKYLÄ-KITTILÄ 1998.64							
150	K				65.46		2.3779		5.249				172436.04
		0.012	-0.04	-0.04		2520.16		2475.75		0.00	0.00	2475.75	
IV16	K				65.46		2.3775		5.249				174911.79
		0.015	0.03	-0.07		-1887.30		-1854.04		0.00	0.00	-1854.04	
59273	K				65.46		2.3779		5.249				173057.75
		0.809	-0.12	-0.07		7620.67		7486.37		0.00	0.03	7486.40	
981001	P				65.45		2.3749		5.252				180544.16
		0.645	-0.03	-0.18		-4619.07		-4537.66		0.01	0.02	-4537.63	
98312	S				65.45		2.3756		5.256				176006.53
		2.211	0.10	1.71		7632.05		7497.54		0.01	0.07	7497.62	
AP0205	P				65.45		2.3758		5.264				183504.15
		1.756	0.05	1.08		24484.56		24053.05		0.01	0.05	24053.11	
IV59201	M				65.46		2.3761		5.272				207557.25
		2.076	-0.04	0.97		7340.92		7211.56		0.01	0.06	7211.63	
61151	M				65.47		2.3782		5.279				214768.89
		1.522	0.05	0.51		-2574.77		-2529.40		0.00	0.05	-2529.35	
AP0703	M				65.50		2.3767		5.280				212239.52
		1.342	-0.35	1.11		22856.02		22453.15		0.01	0.04	22453.20	
61150	M				65.50		2.3704		5.287				234692.72
		0.800	-0.23	0.75		35743.01		35112.74		0.00	0.02	35112.76	
88108	M				65.49		2.3631		5.290				269805.49
		0.042	0.00	-0.03		-121.04		-118.90		0.00	0.00	-118.90	
88109	M				65.49		2.3630		5.290				269686.59
		0.685	0.01	-0.71		1879.84		1846.68		0.00	0.02	1846.70	
88107	M				65.48		2.3622		5.292				271533.29
		1.419	0.20	-0.43		-19444.93		-19102.01		0.00	0.04	-19101.97	
61149	M				65.50		2.3671		5.291				252431.33
		0.742	0.15	0.44		-25041.80		-24600.29		0.01	0.02	-24600.26	
98313	M				65.49		2.3711		5.296				227831.07
		0.840	0.11	-0.11		-3958.09		-3888.31		0.01	0.03	-3888.27	
IV59204	M				65.47		2.3707		5.304				223942.79
		0.884	0.03	0.61		4396.96		4319.44		0.01	0.03	4319.48	
98314	M				65.47		2.3700		5.309				228262.27
		1.046	0.23	1.51		13667.39		13426.42		0.01	0.03	13426.46	
61148	M				65.46		2.3672		5.316				241688.74
		1.032	-0.02	0.46		29712.50		29188.50		0.01	0.03	29188.54	
IV59205	M				65.46		2.3618		5.321				270877.29
		0.630	0.04	-0.38		-22435.09		-22039.43		0.00	0.02	-22039.41	
61147	M				65.47		2.3668		5.323				248837.87
		2.034	0.02	2.00		-39067.43		-38378.83		0.01	0.06	-38378.76	
98315	M				65.47		2.3814		5.333				210459.11
		2.254	-0.19	0.66		-5705.40		-5604.88		-0.02	0.07	-5604.83	
61146	M				65.53		2.3793		5.322				204854.29
		1.885	-0.01	1.14		-1031.49		-1013.31		-0.01	0.06	-1013.26	
IV59208	M				65.58		2.3722		5.313				203841.03
		0.954	-0.04	0.99		-1532.94		-1505.92		-0.01	0.03	-1505.90	
61145	M				65.61		2.3727		5.307				202335.13
		1.206	0.04	1.23		1142.68		1122.54		-0.01	0.04	1122.57	
IV59209	M				65.64		2.3734		5.304				203457.69
		1.050	-0.11	0.56		-464.13		-455.95		0.00	0.03	-455.92	
61144	M				65.66		2.3765		5.304				203001.78
		1.390	-0.03	-0.31		4754.12		4670.34		0.01	0.04	4670.39	
61143	M				65.67		2.3764		5.308				207672.17
		2.106	-0.09	0.25		-11055.59		-10860.78		0.00	0.07	-10860.71	
61142	M				65.70		2.3800		5.310				196811.45
		2.054	-0.02	0.95		-6960.26		-6837.63		-0.01	0.06	-6837.58	
98316	S				65.75		2.3840		5.304				189973.88
		2.559	-0.07	0.85		15425.61		15153.89		0.00	0.08	15153.97	
IV59213	K				65.81		2.3843		5.301				205127.84
		3.124	-0.17	2.25		-5826.04		-5723.41		-0.01	0.10	-5723.32	
61140	M				65.87		2.3831		5.296				199404.51
		2.118	-0.01	-0.24		6570.51		6454.77		0.00	0.07	6454.84	
61139	M				65.90		2.3869		5.296				205859.35

1	2	3	4	5	6	7	8	9	10	11	12	13	14
61139	M				65.90		2.3869		5.296				205859.35
		2.604	0.12	-0.23		696.50		684.23		0.01	0.08	684.32	
61138	M				65.93		2.3919		5.303				206543.66
		1.288	-0.08	-0.07		850.66		835.68		0.00	0.04	835.72	
98317	M				65.94		2.3937		5.306				207379.38
		0.732	-0.02	-0.71		-7348.83		-7219.45		0.00	0.02	-7219.43	
61137	M				65.94		2.3956		5.309				200159.95
		2.010	0.20	-1.29		7033.91		6910.09		0.01	0.06	6910.16	
61136	M				65.94		2.3972		5.320				207070.11
		1.008	0.09	-0.14		5751.18		5649.94		0.01	0.03	5649.98	
61135	M				65.93		2.3965		5.326				212720.09
		2.046	-0.02	0.89		-6867.95		-6747.06		0.01	0.06	-6746.99	
61134	K				65.94		2.3981		5.334				205973.12
		0.798	0.09	0.10		-4256.28		-4181.36		0.00	0.02	-4181.34	
IV59220	M				65.95		2.3995		5.333				201791.78
		1.398	-0.11	0.41		-1144.18		-1124.05		0.00	0.04	-1124.01	
98318	M				65.97		2.4008		5.332				200667.78
		0.872	-0.03	-0.34		-2443.02		-2400.02		0.00	0.03	-2399.99	
IV59221	M				65.99		2.4012		5.332				198267.77
		1.880	-0.05	-0.10		-802.72		-788.59		0.01	0.06	-788.52	
98319	M				65.99		2.4021		5.337				197479.26
		3.196	0.02	-1.69		2202.67		2163.91		-0.01	0.10	2164.00	
IV59222	K				66.05		2.4097		5.332				199643.25
		0.964	0.01	0.58		2230.19		2190.96		0.00	0.03	2190.99	
98320	M				66.07		2.4090		5.329				201834.24
		1.084	0.05	0.38		1754.21		1723.35		-0.01	0.03	1723.37	
IV59223	K				66.09		2.4093		5.325				203557.62
		1.108	-0.10	-0.15		-1025.25		-1007.21		0.00	0.03	-1007.18	
98321	K				66.11		2.4077		5.321				202550.45
		1.562	-0.03	0.54		1962.20		1927.68		0.00	0.05	1927.73	
IV59224	M				66.13		2.4023		5.320				204478.18
		1.794	0.08	1.82		18389.14		18065.53		0.00	0.06	18065.59	
IV59225	M				66.16		2.4012		5.319				222543.75
		1.498	0.07	0.36		6259.44		6149.27		0.00	0.05	6149.32	
61132	M				66.17		2.3980		5.322				228693.07
		1.535	0.16	0.69		-4578.82		-4498.22		0.01	0.05	-4498.16	
61131	K				66.17		2.3946		5.327				224194.92
		1.172	0.10	1.14		-17290.88		-16986.45		0.00	0.04	-16986.41	
AP18	R				66.18		2.3930		5.330				207208.49
		1.897	0.09	1.15		2146.64		2108.84		0.01	0.06	2108.91	
IV59227	M				66.18		2.3857		5.337				209317.40
		2.004	0.12	0.06		-1613.12		-1584.70		0.02	0.06	-1584.62	
IV59228	M				66.16		2.3825		5.351				207732.78
		1.224	-0.17	0.76		-11390.10		-11189.44		0.01	0.04	-11189.39	
61130	M				66.15		2.3839		5.357				196543.39
		1.671	0.02	1.29		462.88		454.73		0.00	0.05	454.78	
61129	M				66.16		2.3881		5.360				196998.17
		1.710	0.15	1.60		-12571.58		-12350.23		0.00	0.05	-12350.18	
98128	M				66.18		2.3976		5.360				184647.99
		1.468	-0.05	0.74		-9303.85		-9140.10		0.00	0.05	-9140.05	
61128	S				66.20		2.3999		5.362				175507.94
		1.363	0.00	-0.74		3855.07		3787.22		-0.01	0.04	3787.25	
IV59231	M				66.22		2.4002		5.355				179295.19
		1.376	-0.02	0.35		-2207.49		-2168.64		-0.01	0.04	-2168.61	
98112	S				66.26		2.4014		5.345				177126.58
		2.519	0.02	0.16		936.18		919.70		0.01	0.08	919.79	
61126	M				66.27		2.4051		5.351				178046.37
		1.585	0.10	0.40		-1669.50		-1640.12		0.00	0.05	-1640.07	
61125	S				66.30		2.4042		5.349				176406.30
		1.883	-0.04	1.51		1326.35		1303.01		0.01	0.06	1303.08	
IV59233	M				66.30		2.4009		5.355				177709.37
		3.053	-0.11	2.08		-1093.14		-1073.89		0.02	0.09	-1073.78	
61124	S				66.29		2.3901		5.368				176635.59
		0.124	0.00	0.19		34.62		34.01		0.00	0.00	34.01	
61123	S				66.29		2.3898		5.368				176669.61
		1.174	-0.01	0.25		-79.62		-78.22		0.01	0.04	-78.17	
98116	M				66.26		2.3901		5.378				176591.43
		1.952	0.03	1.86		-2264.27		-2224.40		0.02	-0.39	-2224.77	
98117	S				66.21		2.3885		5.394				174366.67

1	2	3	4	5	6	7	8	9	10	11	12	13	14
98117	S				66.21		2.3885		5.394				174366.67
		1.007	-0.05	-1.48		17357.15		17051.44		0.01	0.39	17051.84	
98115	M				66.17		2.3854		5.404				191418.51
		0.303	-0.25	-0.01		16726.49		16431.84		0.00	0.00	16431.84	
98113	K				66.17		2.3825		5.406				207850.34
		0.013	0.00	0.02		320.62		314.97		0.00	0.00	314.97	
98114	K				66.17		2.3824		5.406				208165.31
		96.117	-0.13	29.84		36367.11		35726.20		0.19	2.86	35729.25	

70 KEMIJÄRVI-SODANKYLÄ 1998.45

96301	K				62.87		2.3215		5.609				163035.29
		0.006	0.00	-0.04		221.40		217.49		0.00	0.00	217.49	
96302	K				62.87		2.3215		5.609				163252.79
		2.202	0.13	1.58		-13859.13		-13614.14		-0.01	-0.37	-13614.52	
96304	S				62.92		2.3243		5.602				149638.26
		0.613	0.12	-0.36		6.77		6.65		0.00	-0.13	6.52	
49201	S				62.92		2.3246		5.605				149644.79
		1.440	-0.22	1.29		19773.67		19424.12		0.00	0.13	19424.25	
59202	M				62.95		2.3203		5.606				169069.04
		0.492	-0.01	0.85		-1371.15		-1346.91		0.00	0.04	-1346.87	
IV571	M				62.96		2.3191		5.605				167722.16
		1.551	-0.03	1.13		-10629.56		-10441.63		0.00	0.14	-10441.49	
M9461	M				62.99		2.3208		5.606				157280.67
		0.969	0.06	1.37		-8247.46		-8101.66		0.00	0.09	-8101.57	
98301	M				63.02		2.3228		5.605				149179.10
		2.370	-0.21	2.99		17532.73		17222.78		-0.01	0.22	17222.99	
59231	K				63.09		2.3193		5.596				166402.09
		1.210	0.06	0.99		5418.75		5322.94		0.00	0.11	5323.05	
IV573	M				63.13		2.3185		5.594				171725.13
		1.445	-0.02	0.21		1597.46		1569.22		-0.01	0.13	1569.34	
59232	M				63.17		2.3192		5.586				173294.48
		0.500	0.15	-0.41		-9843.59		-9669.56		0.00	0.05	-9669.51	
98302	K				63.18		2.3212		5.585				163624.97
		0.764	0.00	0.24		-4959.67		-4871.99		0.00	0.07	-4871.92	
812321	M				63.20		2.3228		5.582				158753.04
		1.528	0.03	0.84		-9683.48		-9512.32		-0.01	0.14	-9512.19	
IV574	M				63.24		2.3260		5.573				149240.85
		1.460	0.04	1.15		1183.94		1163.02		-0.01	0.13	1163.14	
59233	M				63.24		2.3274		5.567				150404.00
		1.317	-0.01	1.46		10888.16		10695.73		-0.01	0.12	10695.84	
IV575	M				63.25		2.3253		5.562				161099.83
		2.029	-0.08	-0.95		-6115.04		-6006.97		-0.01	0.18	-6006.80	
98303	M				63.29		2.3265		5.555				155093.04
		1.303	-0.06	1.93		3764.08		3697.56		-0.01	0.12	3697.67	
AP5	M				63.32		2.3264		5.548				158790.71
		2.216	0.07	1.29		-8544.09		-8393.10		-0.02	0.20	-8392.92	
59235	M				63.37		2.3292		5.533				150397.79
		2.525	0.08	2.16		2953.68		2901.48		-0.02	0.23	2901.69	
59236	M				63.45		2.3304		5.522				153299.48
		1.720	0.06	-0.14		-1442.55		-1417.07		-0.01	0.16	-1416.92	
IV578	M				63.50		2.3319		5.513				151882.57
		1.794	-0.06	1.62		-1347.77		-1323.96		-0.01	0.16	-1323.81	
59237	M				63.55		2.3337		5.507				150558.76
		1.682	0.18	2.05		15338.51		15067.53		-0.01	0.15	15067.67	
59245	M				63.60		2.3329		5.499				165626.44
		1.567	-0.01	0.59		-15996.53		-15713.97		-0.01	0.14	-15713.84	
98304	S				63.65		2.3396		5.491				149912.60
		1.286	0.04	0.43		11724.69		11517.64		-0.01	0.12	11517.75	
98305	M				63.69		2.3404		5.483				161430.35
		1.586	0.35	-0.02		-6622.70		-6505.76		-0.02	0.14	-6505.64	
98307	M				63.73		2.3435		5.473				154924.71
		2.940	-0.06	1.06		6415.68		6302.42		-0.03	0.27	6302.66	
98309	M				63.81		2.3475		5.455				161227.37
		0.932	-0.09	0.77		9287.79		9123.83		0.01	0.08	9123.92	
794111	K				63.81		2.3453		5.459				170351.29

1	2	3	4	5	6	7	8	9	10	11	12	13	14
794111	K				63.81		2.3453		5.459				170351.29
		1.448	0.18	-0.10		-19327.07		-18985.90		-0.01	0.13	-18985.78	
98306	S				63.82		2.3499		5.452				151365.53
		1.960	-0.28	0.47		3772.82		3706.22		-0.02	0.18	3706.38	
59240	M				63.88		2.3469		5.439				155071.90
		2.620	-0.02	1.37		4081.96		4009.90		-0.03	0.24	4010.11	
59241	M				63.95		2.3432		5.421				159082.01
		1.150	0.03	0.59		1566.49		1538.83		-0.01	0.10	1538.92	
98308	M				63.98		2.3435		5.414				160620.93
		0.220	0.02	0.03		-189.85		-186.50		0.00	0.02	-186.48	
IV5714	M				63.98		2.3436		5.413				160434.46
		1.647	-0.11	0.95		-4529.86		-4449.88		-0.01	0.15	-4449.74	
59243	M				64.03		2.3438		5.404				155984.72
		1.386	0.00	1.21		-1461.93		-1436.12		-0.01	0.13	-1436.00	
59244	M				64.07		2.3462		5.398				154548.72
		2.918	0.64	2.33		17684.69		17372.50		-0.02	0.27	17372.75	
IV5716	M				64.16		2.3462		5.384				171921.45
		2.528	-0.04	0.97		-17249.01		-16944.53		-0.01	0.23	-16944.31	
IV5717	M				64.22		2.3508		5.375				154977.14
		1.386	-0.17	1.29		8975.47		8817.06		-0.01	0.13	8817.18	
59246	M				64.26		2.3496		5.366				163794.32
		1.896	0.06	1.22		-13774.01		-13530.91		-0.02	0.17	-13530.76	
IV5718	M				64.32		2.3517		5.354				150263.56
		1.578	-0.08	0.96		8343.79		8196.54		-0.01	0.14	8196.67	
59247	M				64.36		2.3524		5.344				158460.23
		1.567	0.00	1.99		198.11		194.61		-0.01	0.14	194.74	
IV5719	M				64.40		2.3574		5.340				158654.98
		2.343	-0.09	2.57		-6646.98		-6529.71		-0.02	0.21	-6529.52	
98310	S				64.47		2.3554		5.326				152125.46
		2.764	0.01	0.81		3212.23		3155.57		-0.03	0.25	3155.79	
59250	M				64.55		2.3588		5.309				155281.25
		2.736	-0.08	2.46		-358.77		-352.44		-0.02	0.25	-352.21	
98111	M				64.63		2.3611		5.294				154929.04
		0.856	0.35	1.99		6629.37		6512.43		0.00	0.08	6512.51	
59252	M				64.66		2.3598		5.291				161441.55
		2.037	0.09	0.28		-7245.88		-7118.07		-0.01	0.19	-7117.89	
59254	M				64.70		2.3614		5.287				154323.65
		2.690	0.00	-1.21		-1684.29		-1654.58		-0.01	0.25	-1654.34	
98110	M				64.75		2.3622		5.280				152669.31
		1.987	0.12	-2.13		3149.52		3093.96		-0.01	0.18	3094.13	
59257	S				64.80		2.3619		5.275				155763.43
		1.375	-0.04	0.19		5942.74		5837.93		-0.01	0.13	5838.05	
59258	M				64.83		2.3627		5.270				161601.48
		3.583	-0.20	-4.25		18670.74		18341.50		-0.02	0.33	18341.81	
59259	M				64.91		2.3688		5.258				179943.28
		2.706	-0.11	-0.83		12670.87		12447.45		-0.02	0.25	12447.68	
59260	M				64.98		2.3671		5.248				192390.96
		2.224	-0.10	1.86		23698.49		23280.55		-0.02	0.20	23280.73	
59261	K				65.04		2.3610		5.236				215671.70
		0.051	-0.06	-0.01		4256.50		4181.42		0.00	0.00	4181.42	
59262	K				65.05		2.3603		5.235				219853.13
		1.265	0.19	0.40		-8906.64		-8749.57		-0.01	0.12	-8749.46	
59263	M				65.08		2.3695		5.230				211103.65
		1.668	0.02	-0.06		9977.97		9802.03		0.00	0.15	9802.18	
98101	M				65.11		2.3650		5.227				220905.84
		1.607	0.24	-0.31		-9868.82		-9694.79		0.00	0.15	-9694.64	
98102	M				65.14		2.3662		5.224				211211.19
		1.082	-0.19	0.08		12825.89		12599.70		0.00	0.10	12599.80	
98103	K				65.16		2.3636		5.223				223810.99
		1.511	0.00	-0.04		-1226.27		-1204.64		0.00	0.14	-1204.50	
98104	M				65.18		2.3632		5.222				222606.49
		1.398	-0.03	0.97		-7401.33		-7270.79		0.00	0.13	-7270.66	
98105	K				65.19		2.3620		5.224				215335.83
		1.338	0.13	1.54		-22224.17		-21832.22		-0.01	0.12	-21832.11	
59266	M				65.23		2.3651		5.221				193503.71
		1.261	0.08	-0.17		-4471.31		-4392.46		0.00	0.11	-4392.35	
98106	M				65.23		2.3652		5.224				189111.37

1	2	3	4	5	6	7	8	9	10	11	12	13	14
98106	M				65.23		2.3652		5.224				189111.37
		1.313	-0.11	1.39		5843.02		5739.98		0.00	0.12	5740.10	
59267	K				65.25		2.3635		5.225				194851.46
		1.605	0.03	0.44		-1553.41		-1526.01		0.00	0.15	-1525.86	
59268	K				65.27		2.3646		5.226				193325.60
		1.683	-0.19	2.18		4741.51		4657.89		0.00	0.15	4658.04	
59269	M				65.29		2.3643		5.227				197983.64
		2.592	0.28	2.14		-9500.91		-9333.38		0.01	0.24	-9333.13	
59270	M				65.32		2.3682		5.231				188650.51
		1.282	-0.45	1.56		32890.82		32310.80		0.00	0.12	32310.92	
98107	M				65.34		2.3627		5.232				220961.43
		1.352	0.27	1.21		-13673.37		-13432.23		0.00	0.12	-13432.11	
59271	M				65.36		2.3657		5.232				207529.32
		1.769	0.09	0.50		-15171.87		-14904.35		0.01	0.16	-14904.18	
98108	M				65.38		2.3693		5.235				192625.15
		1.265	0.06	1.21		-4974.27		-4886.57		0.00	0.12	-4886.45	
59272	K				65.39		2.3702		5.238				187738.69
		0.052	0.01	-0.14		-403.43		-396.32		0.00	0.00	-396.32	
98109	K				65.39		2.3703		5.238				187342.37
		1.562	-0.10	0.98		14301.84		14049.68		0.00	0.14	14049.82	
771449	M				65.41		2.3677		5.241				201392.19
		2.458	-0.07	1.32		-13082.98		-12852.32		0.01	0.22	-12852.09	
98311	M				65.43		2.3708		5.246				188540.11
		1.425	0.08	0.29		-5308.57		-5214.99		0.00	0.13	-5214.86	
AP446	M				65.45		2.3741		5.249				183325.25
		1.176	0.14	1.36		-10451.80		-10267.60		0.00	0.11	-10267.49	
59273	K				65.46		2.3779		5.249				173057.75
		0.015	-0.03	-0.07		1887.30		1854.04		0.00	0.00	1854.04	
IV16	K				65.46		2.3775		5.249				174911.79
		0.012	0.04	-0.04		-2520.16		-2475.75		0.00	0.00	-2475.75	
150	K				65.46		2.3779		5.249				172436.04
		117.794	1.12	55.83		9559.77		9391.32		-0.54	9.97	9400.75	

71 A SIRKKA - RAKKALEHTO 2001.51

98229	K				66.83		2.4143		5.208				201084.33
		1.196	0.10	-0.12		3210.26		3153.82		0.02	-0.04	3153.80	
01304	M				66.87		2.4219		5.195				204238.13
		1.392	0.03	-1.13		-9676.55		-9506.49		0.02	-0.05	-9506.52	
01303	M				66.90		2.4296		5.180				194731.60
		1.394	0.08	-0.83		-9316.64		-9152.98		0.02	-0.05	-9153.01	
71102	M				66.93		2.4367		5.167				185578.59
		0.589	0.06	-0.51		3889.58		3821.27		0.01	-0.02	3821.26	
01301	M				66.95		2.4391		5.160				189399.85
		1.651	0.06	-1.76		3088.97		3034.74		0.03	-0.06	3034.71	
01302	K				67.00		2.4419		5.142				192434.55
		1.412	-0.09	-1.10		-782.31		-768.57		0.02	-0.05	-768.60	
71103	M				67.04		2.4393		5.125				191665.95
		1.341	-0.19	0.46		9130.74		8970.38		0.02	-0.05	8970.35	
IV3	K				67.08		2.4370		5.109				200636.30
		1.159	0.12	0.50		-17535.47		-17227.53		0.02	-0.04	-17227.55	
IV4	K				67.11		2.4405		5.098				183408.74
		0.765	0.03	-0.59		2623.95		2577.87		0.00	-0.03	2577.84	
01305	K				67.10		2.4405		5.100				185986.58
		0.651	0.12	-0.22		7041.24		6917.60		0.01	-0.02	6917.59	
71104	M				67.12		2.4397		5.095				192904.16
		0.434	-0.04	0.44		4298.27		4222.79		0.00	-0.02	4222.77	
01306	M				67.12		2.4390		5.094				197126.93
		0.573	-0.03	-0.54		-2387.60		-2345.67		0.00	-0.02	-2345.69	
71105	M				67.12		2.4400		5.092				194781.24
		0.409	0.05	-0.10		3778.05		3711.71		0.00	-0.02	3711.69	
01313	M				67.11		2.4393		5.092				198492.95
		1.081	-0.20	-0.83		-388.75		-381.92		-0.01	-0.04	-381.97	
IV5	M				67.09		2.4393		5.097				198110.98
		0.905	0.09	-1.30		-1041.90		-1023.60		0.00	-0.03	-1023.63	
71106	M				67.08		2.4389		5.100				197087.34

1	2	3	4	5	6	7	8	9	10	11	12	13	14
71106	M				67.08		2.4389		5.100				197087.34
		0.524	0.05	-0.29		-6119.13		-6011.68		0.00	-0.02	-6011.70	
01307	M				67.07		2.4402		5.101				191075.65
		0.737	0.09	-0.85		2501.54		2457.61		0.00	-0.03	2457.58	
71107	M				67.07		2.4402		5.099				193533.23
		0.353	-0.04	-0.68		-3162.65		-3107.11		0.00	-0.01	-3107.12	
IV6	K				67.08		2.4410		5.096				190426.10
		0.748	0.10	-1.18		4169.99		4096.77		0.00	-0.03	4096.74	
01308	M				67.07		2.4404		5.097				194522.85
		1.023	0.15	-0.85		-5747.24		-5646.32		0.01	-0.04	-5646.35	
01309	K				67.07		2.4413		5.093				188876.50
		0.669	-0.01	-1.17		1104.21		1084.82		0.01	-0.02	1084.81	
01310	K				67.08		2.4420		5.086				189961.30
		0.572	0.08	-1.04		-124.56		-122.38		0.00	-0.02	-122.40	
71109	K				67.09		2.4425		5.083				189838.89
		1.132	-0.03	-0.14		1155.93		1135.64		0.02	-0.04	1135.62	
71110	K				67.12		2.4438		5.071				190974.51
		1.052	0.00	-1.31		9140.09		8979.63		0.01	-0.04	8979.60	
71111	M				67.13		2.4432		5.062				199954.11
		2.036	-0.01	-2.42		3084.58		3030.42		0.03	-0.08	3030.37	
IV9	M				67.17		2.4431		5.042				202984.49
		0.992	-0.10	-1.61		-10457.46		-10273.87		0.02	-0.04	-10273.89	
01311	K				67.20		2.4454		5.031				192710.60
		0.822	0.04	-0.61		423.67		416.23		0.00	-0.03	416.20	
71112	K				67.21		2.4454		5.028				193126.80
		1.147	0.13	-0.27		6138.79		6031.02		0.02	-0.04	6031.00	
IV10	M				67.25		2.4441		5.015				199157.80
		1.394	-0.10	-1.27		-6904.24		-6783.04		0.01	-0.05	-6783.08	
71113	M				67.28		2.4460		5.007				192374.72
		0.798	0.04	-0.76		2415.86		2373.45		0.01	-0.03	2373.43	
IV11	M				67.30		2.4459		5.000				194748.15
		1.557	-0.08	-1.59		9636.56		9467.38		0.03	-0.06	9467.35	
71114	K				67.34		2.4433		4.981				204215.50
		0.660	-0.04	-0.67		-4716.66		-4633.86		0.01	-0.02	-4633.87	
71115	K				67.36		2.4433		4.973				199581.62
		1.329	0.03	-0.75		11734.08		11528.05		0.02	-0.05	11528.02	
IV13	M				67.39		2.4403		4.959				211109.65
		1.649	0.03	-1.69		3985.29		3915.31		0.03	-0.06	3915.28	
71116	M				67.43		2.4383		4.941				215024.91
		1.064	0.43	-0.14		32560.51		31988.59		0.02	-0.04	31988.57	
01312	M				67.45		2.4315		4.928				247013.48
		0.750	0.09	-1.03		20385.73		20027.55		0.01	-0.03	20027.53	
71117	K				67.47		2.4278		4.920				267041.03
		0.188	0.05	-0.11		2321.23		2280.44		0.00	-0.01	2280.43	
MML143	K				67.47		2.4275		4.919				269321.45
		0.894	0.07	-1.18		-51244.62		-50344.38		0.01	-0.03	-50344.40	
01314	M				67.49		2.4373		4.910				218977.05
		1.148	-0.01	-0.95		1331.48		1308.09		0.02	-0.04	1308.07	
71118	M				67.51		2.4362		4.897				220285.11
		1.153	0.03	-1.49		20671.03		20307.92		0.02	-0.04	20307.90	
71120	M				67.55		2.4320		4.882				240593.01
		1.486	0.10	-2.27		15129.56		14863.73		0.03	-0.05	14863.71	
71119	M				67.59		2.4277		4.865				255456.72
		0.867	0.02	-0.93		-602.90		-592.31		0.02	-0.03	-592.32	
IV17	M				67.61		2.4267		4.854				254864.39
		1.561	0.09	-0.96		-35350.69		-34729.55		0.02	-0.06	-34729.59	
01315	M				67.64		2.4316		4.838				220134.81
		1.266	-0.35	-0.89		11111.80		10916.58		0.02	-0.05	10916.55	
01316	M				67.67		2.4292		4.824				231051.35
		2.045	-0.19	-2.18		5586.46		5488.30		0.04	-0.08	5488.26	
IV19	M				67.72		2.4242		4.798				236539.61
		1.968	0.44	-2.40		11103.61		10908.43		0.03	-0.07	10908.39	
01317	M				67.76		2.4200		4.776				247448.00
		1.684	-0.17	-1.99		32233.75		31666.95		0.02	-0.06	31666.91	
71124	M				67.79		2.4120		4.760				279114.91
		2.019	0.00	-2.28		13392.35		13156.77		0.03	-0.07	13156.73	
71126	M				67.82		2.4065		4.742				292271.63

1	2	3	4	5	6	7	8	9	10	11	12	13	14
71126	M				67.82		2.4065		4.742				292271.63
		1.123	0.11	-0.64		-11422.74		-11221.79		0.02	-0.04	-11221.81	
71127	M				67.83		2.4090		4.732				281049.83
		1.556	-0.18	-2.16		-23825.98		-23406.84		0.02	-0.06	-23406.88	
71128	M				67.86		2.4076		4.717				257642.95
		1.055	0.09	-0.46		7084.60		6959.97		0.02	-0.04	6959.95	
01318	M				67.88		2.4038		4.705				264602.90
		1.003	-0.06	-1.79		11217.15		11019.75		0.02	-0.04	11019.73	
71130	M				67.91		2.3998		4.693				275622.62
		1.073	0.04	-0.79		-8864.60		-8708.59		0.02	-0.04	-8708.61	
71131	M				67.93		2.4000		4.681				266914.02
		1.215	0.17	-1.17		2950.42		2898.50		0.01	-0.04	2898.47	
71132	M				67.94		2.3982		4.675				269812.47
		2.411	0.27	-3.23		17314.60		17009.80		0.02	-0.09	17009.73	
71133	K				67.96		2.3935		4.659				286822.21
		61.675	1.56	-55.82		87273.24		85739.35		0.81	-2.26	85737.90	

71 B RAKKALEHTO - REPOJOKI 2001.66

71133	K				67.96		2.3935		4.659				286822.21
		0.111	0.00	-0.03		613.25		602.45		0.00	0.00	602.45	
71134	K				67.96		2.3933		4.658				287424.65
		1.156	0.06	-1.09		-3711.19		-3645.85		0.02	-0.04	-3645.87	
72141	K				67.97		2.3940		4.649				283778.78
		0.904	0.01	-0.63		12913.20		12685.83		0.02	-0.03	12685.82	
72140	M				67.99		2.3908		4.639				296464.60
		2.209	0.29	-2.23		22930.48		22526.59		0.03	-0.08	22526.54	
01319	M				68.02		2.3817		4.621				318991.13
		1.776	-0.24	-1.62		-31557.29		-31001.39		0.03	-0.07	-31001.43	
72137	M				68.05		2.3866		4.606				287989.72
		2.277	-0.35	-5.65		-14008.11		-13761.42		0.03	-0.08	-13761.47	
01320	M				68.08		2.3925		4.585				274228.24
		1.367	0.08	-2.82		-15317.68		-15048.01		0.02	-0.05	-15048.04	
672283	S				68.11		2.3970		4.573				259180.19
		1.183	-0.01	-1.21		3944.39		3874.95		0.02	-0.04	3874.93	
72135	S				68.14		2.3968		4.558				263055.12
		0.826	-0.02	-1.51		7782.09		7645.10		0.02	-0.03	7645.09	
72134	M				68.16		2.3959		4.548				270700.21
		1.314	0.72	-1.71		7950.98		7811.00		0.03	-0.05	7810.98	
AP567	M				68.20		2.3944		4.532				278511.19
		1.733	0.06	-1.58		4470.98		4392.26		0.03	-0.06	4392.23	
01321	K				68.25		2.3936		4.514				282903.42
		0.961	-0.27	-0.37		10807.20		10616.91		0.02	-0.04	10616.89	
01322	M				68.28		2.3907		4.502				293520.31
		2.481	0.12	-1.97		-2732.64		-2684.53		0.05	-0.09	-2684.57	
01323	M				68.34		2.3919		4.473				290835.74
		1.178	0.08	-1.12		10448.30		10264.32		0.02	-0.04	10264.30	
01324	M				68.38		2.3905		4.459				301100.02
		0.678	0.01	-1.07		-13504.34		-13266.56		0.01	-0.03	-13266.58	
72131	M				68.39		2.3941		4.451				287833.46
		1.013	0.07	-1.69		-7456.06		-7324.80		0.02	-0.04	-7324.82	
01325	S				68.42		2.3962		4.439				280508.64
		0.981	-0.04	-1.14		1240.49		1218.65		0.02	-0.04	1218.63	
AP575	R				68.45		2.3969		4.427				281727.28
		1.607	0.45	-2.05		14542.04		14286.04		0.03	-0.06	14286.01	
72130	T				68.50		2.3952		4.407				296013.29
		0.938	0.37	-1.67		11532.20		11329.17		0.02	-0.03	11329.16	
01326	M				68.53		2.3938		4.396				307342.44
		0.716	-0.41	-0.59		-7991.46		-7850.78		0.01	-0.03	-7850.80	
01327	M				68.55		2.3966		4.388				299491.64
		0.428	0.29	-0.29		-8029.40		-7888.07		0.01	-0.02	-7888.08	
AP579	M				68.56		2.3990		4.383				291603.57
		1.808	0.41	-2.60		-5542.34		-5444.80		0.04	-0.07	-5444.83	
01328	M				68.61		2.4041		4.361				286158.74
		1.151	-0.04	-1.05		1838.18		1805.85		0.02	-0.04	1805.83	
01329	K				68.64		2.4045		4.349				287964.57

1	2	3	4	5	6	7	8	9	10	11	12	13	14
01329	K				68.64		2.4045		4.349				287964.57
		0.015	-0.01	-0.21		887.31		871.70		0.00	0.00	871.70	
72129	M				68.64		2.4043		4.349				288836.27
		1.953	-0.01	-2.17		-14386.94		-14133.84		0.03	-0.07	-14133.88	
AP583	P				68.70		2.4098		4.329				274702.39
		1.468	0.13	-0.54		-14884.26		-14622.49		0.03	-0.05	-14622.51	
72128	K				68.74		2.4150		4.312				260079.87
		1.274	0.12	-1.36		9090.30		8930.44		0.03	-0.05	8930.42	
72127	M				68.78		2.4144		4.296				269010.30
		0.668	-0.10	-0.90		1728.11		1697.72		0.01	-0.02	1697.71	
01330	M				68.80		2.4138		4.288				270708.00
		1.867	0.01	-1.53		-3795.35		-3728.60		0.04	-0.07	-3728.63	
72126	M				68.86		2.4148		4.266				266979.37
		0.654	0.01	0.52		6853.92		6733.39		0.01	-0.02	6733.38	
01331	M				68.88		2.4142		4.258				273712.75
		0.951	-0.02	-0.60		6974.43		6851.77		0.02	-0.04	6851.75	
72125	M				68.90		2.4139		4.246				280564.51
		2.182	0.01	-1.65		3973.63		3903.76		0.04	-0.08	3903.72	
99M44	M				68.97		2.4166		4.220				284468.23
		1.292	0.04	0.65		8113.59		7970.92		0.03	-0.05	7970.90	
01332	M				69.01		2.4174		4.204				292439.13
		0.882	-0.07	0.93		-7807.54		-7670.27		0.02	-0.03	-7670.28	
682149	M				69.04		2.4196		4.194				284768.84
		1.269	-0.15	-0.76		-13901.03		-13656.67		0.02	-0.05	-13656.70	
682150	M				69.07		2.4233		4.180				271112.14
		1.169	0.04	-1.09		-17708.50		-17397.30		0.02	-0.04	-17397.32	
01333	M				69.10		2.4290		4.166				253714.82
		0.290	0.03	-0.16		-6913.28		-6791.82		0.00	-0.01	-6791.83	
672234	S				69.10		2.4307		4.164				246922.99
		0.028	0.05	0.09		-3380.29		-3320.90		0.00	0.00	-3320.90	
01341	K				69.10		2.4314		4.164				243602.09
		44.758	1.72	-44.47		-43992.65		-43219.29		0.82	-1.64	-43220.11	

71 C REPOJOKI - MENESJÄRVI 2001.72

01341	K				69.10		2.4314		4.164				243602.09
		0.506	0.07	-0.47		25333.38		24888.25		0.01	-0.02	24888.24	
01334	M				69.11		2.4268		4.159				268490.33
		1.380	-0.28	-2.27		3277.46		3219.87		0.02	-0.05	3219.84	
72123	M				69.14		2.4276		4.145				271710.17
		1.215	-0.06	-0.91		4828.53		4743.69		0.02	-0.04	4743.67	
72122	M				69.17		2.4297		4.133				276453.83
		1.711	0.35	-0.86		914.47		898.40		0.03	-0.06	898.37	
71318	M				69.20		2.4333		4.116				277352.20
		1.366	-0.02	-1.06		11043.84		10849.83		0.01	-0.05	10849.79	
71317	M				69.21		2.4331		4.108				288201.99
		0.935	0.18	-0.72		-15742.24		-15465.73		0.02	-0.03	-15465.74	
71316	M				69.23		2.4375		4.099				272736.25
		0.923	-0.14	-0.26		20157.23		19803.19		0.02	-0.03	19803.18	
01335	K				69.25		2.4350		4.088				292539.42
		0.548	0.00	-0.24		-1860.67		-1827.99		0.01	-0.02	-1828.00	
71315	M				69.27		2.4359		4.082				290711.42
		1.446	-0.01	-1.32		26478.92		26013.81		0.03	-0.05	26013.79	
71314	M				69.31		2.4329		4.065				316725.21
		0.012	0.00	-0.03		502.01		493.19		0.00	0.00	493.19	
01336	M				69.31		2.4328		4.065				317218.40
		0.399	0.01	-0.01		1621.42		1592.93		0.01	-0.01	1592.93	
01337	M				69.32		2.4329		4.060				318811.32
		1.136	-0.01	-0.52		-14316.33		-14064.86		0.02	-0.04	-14064.88	
71313	M				69.35		2.4371		4.046				304746.44
		1.387	-0.41	-0.26		53321.95		52385.22		0.03	-0.05	52385.20	
71312	M				69.39		2.4281		4.029				357131.64
		1.399	0.39	-1.62		-23436.25		-23024.50		0.03	-0.05	-23024.52	
71311	M				69.43		2.4341		4.012				334107.12
		1.054	0.06	-0.61		-8666.88		-8514.65		0.02	-0.04	-8514.67	
01338	K				69.46		2.4372		3.999				325592.45

1	2	3	4	5	6	7	8	9	10	11	12	13	14
01338	K				69.46		2.4372		3.999				325592.45
		0.543	0.07	0.19		-7937.51		-7798.12		0.01	-0.02	-7798.13	
71310	M				69.47		2.4393		3.992				317794.32
		0.937	-0.05	-0.28		-2132.10		-2094.67		0.02	-0.03	-2094.68	
01339	M				69.50		2.4406		3.981				315699.63
		0.772	0.06	-0.07		9991.17		9815.72		0.01	-0.03	9815.70	
71309	M				69.51		2.4391		3.972				325515.34
		1.400	0.07	-1.22		8405.41		8257.80		0.03	-0.05	8257.78	
01340	K				69.54		2.4390		3.957				333773.12
		0.257	-0.02	-0.23		-2711.05		-2663.45		0.01	-0.01	-2663.45	
71308	K				69.55		2.4397		3.954				331109.67
		1.372	0.12	0.20		19400.07		19059.38		0.03	-0.05	19059.36	
71307	M				69.58		2.4376		3.938				350169.03
		1.105	0.13	-1.20		-44808.55		-44021.82		0.02	-0.04	-44021.84	
71306	M				69.61		2.4472		3.924				306147.19
		1.392	0.37	-0.23		-35941.24		-35310.52		0.03	-0.05	-35310.54	
01160	K				69.65		2.4552		3.907				270836.65
		1.680	-0.04	-0.41		-18617.63		-18291.03		0.04	-0.06	-18291.05	
71304	M				69.70		2.4596		3.886				252545.61
		0.980	0.62	-0.04		-8392.59		-8245.40		0.02	-0.04	-8245.42	
P1.25	M				69.72		2.4624		3.873				244300.19
		1.211	0.07	-0.58		-5312.51		-5219.35		0.03	-0.04	-5219.36	
01159	M				69.76		2.4650		3.857				239080.83
		1.046	-0.09	-0.69		673.87		662.06		0.02	-0.04	662.04	
01161	K				69.79		2.4656		3.844				239742.87
		1.629	0.28	-0.87		-12208.69		-11994.64		0.04	-0.06	-11994.66	
71302	M				69.83		2.4687		3.823				227748.22
		1.713	0.00	-1.28		-8926.14		-8769.66		0.04	-0.06	-8769.68	
71301	K				69.88		2.4716		3.802				218978.53
		1.402	0.02	0.50		-3192.03		-3136.08		0.03	-0.05	-3136.10	
62223	M				69.92		2.4734		3.785				215842.43
		32.856	1.74	-17.37		-28252.66		-27759.09		0.66	-1.17	-27759.60	

71 D MENESJÄRVI - INARI 2001.68

62223	M				69.92		2.4734		3.785				215842.43
		0.039	0.00	-0.13		-234.21		-230.10		0.00	0.00	-230.10	
62222	M				69.92		2.4735		3.785				215612.33
		1.786	0.10	1.27		-3029.80		-2976.71		0.04	-0.07	-2976.74	
01218	M				69.97		2.4749		3.761				212635.60
		2.170	0.51	1.63		-8483.03		-8334.38		0.05	-0.08	-8334.41	
62220	M				70.03		2.4784		3.732				204301.18
		2.637	0.03	2.84		-548.53		-538.92		0.05	-0.10	-538.97	
62219	M				70.09		2.4808		3.700				203762.22
		2.575	-0.06	2.07		5811.13		5709.34		0.06	-0.10	5709.30	
62218	M				70.15		2.4828		3.667				209471.52
		2.952	-0.07	2.38		-3214.67		-3158.36		0.06	-0.11	-3158.41	
62217	M				70.20		2.4856		3.633				206313.11
		1.550	-0.24	3.04		13746.64		13505.87		0.03	-0.06	13505.84	
75113	M				70.23		2.4841		3.614				219818.96
		1.542	-0.25	1.21		9299.30		9136.41		0.04	-0.06	9136.39	
75112	K				70.27		2.4834		3.593				228955.35
		0.713	0.03	0.77		-4526.13		-4446.85		-0.01	-0.03	-4446.89	
62216	M				70.26		2.4840		3.598				224508.46
		2.017	-0.94	1.87		53754.87		52813.10		0.04	-0.07	52813.07	
62215	K				70.29		2.4762		3.574				277321.53
		1.816	-0.04	2.27		691.64		679.52		0.03	-0.07	679.48	
62214	K				70.31		2.4774		3.557				278001.01
		1.806	0.61	2.71		-72826.25		-71550.72		0.03	-0.07	-71550.76	
62213	M				70.33		2.4932		3.538				206450.25
		1.978	0.51	0.96		-31469.65		-30918.84		0.04	-0.07	-30918.87	
01217	K				70.38		2.5008		3.516				175531.38
		1.225	0.08	0.71		-19159.41		-18824.18		0.03	-0.05	-18824.20	
75108	M				70.41		2.5050		3.500				156707.19
		1.772	0.08	1.41		5240.50		5148.82		0.04	-0.07	5148.79	
75107	M				70.44		2.5053		3.479				161855.99

1	2	3	4	5	6	7	8	9	10	11	12	13	14
75107	M				70.44		2.5053		3.479				161855.99
		1.281	0.01	1.68		680.02		668.12		0.01	-0.05	668.08	
75106	M				70.44		2.5051		3.472				162524.07
		2.848	0.11	3.13		-11452.86		-11252.51		0.03	-0.11	-11252.59	
75105	K				70.44		2.5081		3.457				151271.49
		1.787	-0.01	1.41		2591.40		2546.08		0.04	-0.07	2546.05	
75104	K				70.50		2.5097		3.432				153817.53
		1.096	0.12	0.74		-1940.52		-1906.58		0.03	-0.04	-1906.59	
75103	K				70.52		2.5114		3.416				151910.95
		1.897	-0.41	1.64		9937.06		9763.28		0.04	-0.07	9763.25	
75102	M				70.56		2.5123		3.392				161674.19
		1.841	-0.11	0.41		-9490.47		-9324.51		0.04	-0.07	-9324.54	
75101	M				70.59		2.5152		3.368				152349.65
		2.468	0.07	3.38		76593.61		75253.79		-0.03	-0.09	75253.67	
62205	K				70.56		2.4997		3.383				227603.32
		1.191	0.23	1.21		36569.19		35929.08		-0.03	-0.04	35929.01	
62206	K				70.53		2.4916		3.399				263532.33
		2.731	0.96	3.73		-97968.41		-96254.17		0.06	-0.10	-96254.21	
62204	M				70.59		2.5125		3.361				167278.12
		1.706	1.51	1.41		-26388.37		-25926.97		0.04	-0.06	-25926.99	
62203	M				70.63		2.5179		3.337				141351.13
		1.711	0.05	2.13		5442.41		5347.26		0.03	-0.06	5347.23	
62202	M				70.66		2.5171		3.316				146698.36
		1.762	0.14	2.30		-15876.29		-15598.75		0.03	-0.07	-15598.79	
62201	M				70.68		2.5197		3.297				131099.57
		0.872	0.05	0.46		-9832.03		-9660.17		0.02	-0.03	-9660.18	
01214	S				70.70		2.5215		3.285				121439.39
		0.554	0.00	0.39		-3077.55		-3023.76		0.00	0.05	-3023.71	
01216	K				70.70		2.5221		3.282				118415.68
		0.031	0.00	-0.02		-76.27		-74.94		0.00	0.01	-74.93	
01215	K				70.70		2.5221		3.283				118340.75
		50.354	3.07	49.01		-99236.67		-97500.75		0.84	-1.81	-97501.72	

72 IVALO - INARI 2001.61

01205	K				69.75		2.5018		3.641				128990.45
		0.085	0.07	0.03		-8878.85		-8723.49		0.00	0.04	-8723.45	
58141	K				69.75		2.5035		3.640				120267.01
		3.224	0.03	5.50		4668.57		4586.88		0.07	0.12	4587.07	
01206	S				69.85		2.5016		3.596				124854.07
		1.073	-0.03	1.18		7923.98		7785.33		0.02	0.06	7785.41	
01207	M				69.88		2.5015		3.585				132639.49
		1.477	-0.18	-0.03		5726.16		5625.96		0.02	0.09	5626.07	
01208	M				69.91		2.5005		3.575				138265.56
		1.449	0.04	0.51		6118.88		6011.80		0.02	0.09	6011.91	
01209	M				69.94		2.4996		3.564				144277.47
		1.670	0.01	0.14		78.34		76.97		0.02	0.10	77.09	
58146	M				69.98		2.4999		3.549				144354.56
		1.064	0.00	0.72		719.52		706.92		0.02	0.06	707.00	
58147	M				70.01		2.5002		3.535				145061.56
		1.318	-0.13	1.06		21239.76		20868.03		0.02	0.08	20868.13	
58148	K				70.05		2.4967		3.520				165929.70
		1.251	0.00	1.34		-7597.11		-7464.14		0.02	0.08	-7464.04	
58149	M				70.08		2.4989		3.505				158465.64
		1.098	-0.10	-0.12		-21312.62		-20939.69		0.03	0.07	-20939.59	
01210	M				70.11		2.5043		3.490				137526.05
		1.241	0.24	1.68		-16990.47		-16693.24		0.03	0.07	-16693.14	
01211	K				70.15		2.5085		3.472				120832.93
		1.632	0.01	-0.19		-1048.38		-1030.04		0.04	0.10	-1029.90	
58152	M				70.19		2.5084		3.449				119803.02
		1.120	0.04	1.47		-1244.99		-1223.22		0.02	0.07	-1223.13	
58153	M				70.22		2.5096		3.437				118579.89
		1.344	0.00	1.63		987.66		970.38		0.01	0.08	970.47	
58154	M				70.25		2.5104		3.429				119550.36
		2.614	0.09	1.88		2338.30		2297.41		0.03	0.16	2297.60	
58156	M				70.30		2.5115		3.411				121847.96

1	2	3	4	5	6	7	8	9	10	11	12	13	14
58156	M				70.30		2.5115		3.411				121847.96
		1.308	-0.09	1.14		-2374.59		-2333.06		0.02	0.08	-2332.96	
58157	M				70.33		2.5129		3.396				119515.01
		1.309	0.18	0.96		18153.78		17836.31		0.02	0.08	17836.41	
58158	M				70.36		2.5106		3.385				137351.42
		1.729	-0.28	2.17		16752.11		16459.11		0.01	0.10	16459.22	
01212	K				70.38		2.5083		3.380				153810.64
		1.357	0.07	0.45		-3.22		-3.16		0.01	0.08	-3.07	
58160	M				70.40		2.5092		3.375				153807.57
		1.570	-0.10	0.80		-7534.63		-7402.86		0.02	0.09	-7402.75	
58161	K				70.44		2.5117		3.363				146404.83
		1.451	-0.11	1.26		-20716.26		-20354.02		0.02	0.09	-20353.91	
58162	M				70.47		2.5166		3.352				126050.91
		1.486	-0.22	1.68		25887.30		25434.64		0.01	0.09	25434.74	
58163	K				70.49		2.5123		3.347				151485.64
		0.308	0.03	0.23		-1965.87		-1931.50		0.01	0.02	-1931.47	
58165	K				70.50		2.5131		3.343				149554.17
		0.251	0.01	0.32		5299.14		5206.47		0.00	0.02	5206.49	
58166	M				70.50		2.5123		3.341				154760.67
		0.859	-0.11	0.47		18226.14		17907.38		0.01	0.05	17907.44	
59101	M				70.52		2.5094		3.335				172668.11
		1.357	0.27	2.06		-22564.58		-22169.96		0.01	0.08	-22169.87	
59102	M				70.54		2.5136		3.329				150498.24
		1.728	-0.20	1.07		4313.27		4237.85		0.02	0.10	4237.97	
59103	M				70.58		2.5135		3.318				154736.21
		1.673	0.02	1.87		6134.27		6027.00		0.01	0.10	6027.11	
MP158	M				70.60		2.5125		3.311				160763.33
		1.306	-0.18	0.62		-31248.04		-30701.69		0.02	0.08	-30701.59	
59105	K				70.63		2.5189		3.300				130061.74
		1.168	0.26	1.33		-8240.25		-8096.21		0.02	0.07	-8096.12	
59106	M				70.66		2.5207		3.290				121965.62
		1.271	-0.06	1.06		3702.73		3638.00		0.00	0.08	3638.08	
01213	M				70.67		2.5204		3.288				125603.69
		2.634	0.11	4.03		-4238.55		-4164.47		0.01	0.16	-4164.30	
01214	S				70.70		2.5215		3.285				121439.39
		0.554	-0.01	0.39		-3077.55		-3023.76		0.00	0.05	-3023.71	
01216	K				70.70		2.5221		3.282				118415.68
		0.031	0.00	-0.02		-76.27		-74.94		0.00	0.01	-74.93	
01215	K				70.70		2.5221		3.283				118340.75
		45.010	-0.32	38.69		-10842.32		-10652.99		0.59	2.70	-10649.70	

73 A SODANKYLÄ - TANKAVAARA 2001.61

IV16	K				65.46		2.3775		5.249				174911.79
		2.003	-0.15	-0.09		5329.20		5235.29		0.01	0.12	5235.42	
01148	K				65.49		2.3796		5.246				180147.22
		0.063	-0.03	-0.12		1478.95		1452.89		0.00	0.00	1452.89	
01147	K				65.50		2.3794		5.246				181600.11
		1.140	-0.05	0.90		-3776.21		-3709.67		0.01	0.07	-3709.59	
771448	M				65.53		2.3799		5.239				177890.52
		1.656	-0.03	-0.24		-1307.63		-1284.59		0.02	0.10	-1284.47	
53554	M				65.58		2.3807		5.227				176606.05
		1.168	0.00	-1.01		-1845.82		-1813.30		0.01	0.07	-1813.22	
01149	M				65.61		2.3811		5.219				174792.83
		1.087	-0.01	-0.25		4050.84		3979.46		0.01	0.07	3979.54	
01155	M				65.64		2.3809		5.211				178772.36
		2.101	-0.03	0.29		875.07		859.65		0.02	0.13	859.80	
01157	M				65.70		2.3857		5.196				179632.16
		1.538	0.01	0.14		289.25		284.17		0.02	0.09	284.28	
AP1701	M				65.75		2.3911		5.183				179916.43
		1.202	-0.01	0.61		12949.57		12721.53		0.01	0.07	12721.61	
01150	K				65.78		2.3893		5.175				192638.05
		0.054	0.01	-0.15		-935.67		-919.19		0.00	0.00	-919.19	
01151	K				65.78		2.3895		5.175				191718.87
		1.004	0.03	0.23		-11208.94		-11011.54		0.01	0.06	-11011.47	
01128	S				65.81		2.3899		5.167				180707.40

1	2	3	4	5	6	7	8	9	10	11	12	13	14
01128	S				65.81		2.3899		5.167				180707.40
		1.928	0.05	1.68		-646.46		-635.07		0.03	0.12	-634.92	
53558	M				65.85		2.3860		5.152				180072.47
		1.213	0.01	1.51		310.21		304.75		0.01	0.07	304.83	
01122	M				65.87		2.3846		5.143				180377.31
		1.608	0.00	1.69		1015.60		997.71		0.02	0.10	997.83	
53559	M				65.92		2.3820		5.130				181375.12
		1.979	0.05	0.25		4143.43		4070.44		0.03	0.12	4070.59	
01123	M				65.96		2.3846		5.114				185445.71
		1.533	-0.05	0.36		-22.50		-22.11		0.02	0.09	-22.00	
53560	M				66.00		2.3888		5.102				185423.72
		1.278	-0.05	1.24		909.07		893.06		0.02	0.08	893.16	
01124	M				66.04		2.3871		5.092				186316.87
		0.820	0.00	0.71		-759.33		-745.96		0.01	0.05	-745.90	
53561	M				66.06		2.3885		5.085				185570.98
		1.822	-0.01	0.42		3849.84		3782.04		0.02	0.11	3782.17	
01125	M				66.12		2.3894		5.072				189353.15
		0.923	0.09	0.21		4905.09		4818.71		0.01	0.06	4818.78	
53562	M				66.15		2.3894		5.064				194171.93
		1.371	0.38	0.39		14687.87		14429.20		0.02	0.08	14429.30	
01126	M				66.19		2.3883		5.054				208601.23
		2.096	-0.01	0.48		-6034.64		-5928.35		0.02	0.13	-5928.20	
53563	M				66.26		2.3874		5.040				202673.02
		1.379	-0.20	1.77		-1857.78		-1825.06		0.01	0.08	-1824.97	
01127	M				66.30		2.3900		5.032				200848.05
		1.426	-0.38	3.00		-11511.97		-11309.27		0.02	0.09	-11309.16	
01129	K				66.34		2.3938		5.021				189538.89
		0.038	-0.03	-0.24		3340.41		3281.60		0.00	0.00	3281.60	
53564	M				66.34		2.3934		5.021				192820.49
		1.235	0.12	-0.35		2753.01		2704.54		0.02	0.07	2704.63	
01130	M				66.37		2.3923		5.011				195525.12
		1.326	-0.02	0.46		7842.62		7704.52		0.02	0.08	7704.62	
01131	M				66.41		2.3907		4.999				203229.74
		0.661	0.00	0.13		-393.14		-386.21		0.01	0.04	-386.16	
01132	M				66.43		2.3910		4.993				202843.58
		1.030	-0.01	0.56		-73.75		-72.45		0.01	0.06	-72.38	
01133	M				66.46		2.3902		4.984				202771.20
		2.417	0.08	2.84		3000.97		2948.13		0.03	0.15	2948.31	
01134	M				66.54		2.3899		4.965				205719.50
		0.882	-0.10	-0.09		-1925.11		-1891.21		0.01	0.05	-1891.15	
01135	M				66.57		2.3905		4.957				203828.36
		1.241	-0.02	0.54		-1663.10		-1633.81		0.02	0.07	-1633.72	
01136	M				66.60		2.3906		4.946				202194.65
		1.108	-0.02	-0.10		1025.89		1007.82		0.02	0.07	1007.91	
53569	M				66.64		2.3900		4.936				203202.54
		1.328	-0.02	0.27		1026.40		1008.33		0.02	0.08	1008.43	
01137	M				66.68		2.3897		4.924				204210.97
		0.973	-0.09	0.46		-1910.93		-1877.27		0.01	0.06	-1877.20	
01138	M				66.71		2.3898		4.917				202333.77
		1.123	0.05	1.13		2633.88		2587.49		0.02	0.07	2587.58	
01139	M				66.74		2.3888		4.907				204921.35
		1.075	-0.07	1.14		573.06		562.97		0.02	0.06	563.05	
53571	M				66.77		2.3885		4.897				205484.40
		1.174	-0.04	0.31		-205.24		-201.63		0.02	0.07	-201.54	
01140	M				66.81		2.3892		4.886				205282.87
		1.540	-0.02	1.24		-1899.42		-1865.97		0.02	0.09	-1865.86	
01141	M				66.86		2.3905		4.871				203417.01
		1.920	-0.04	2.71		2640.94		2594.43		0.02	0.12	2594.57	
53573	M				66.91		2.3915		4.858				206011.57
		1.438	-0.14	0.02		4269.52		4194.34		0.01	0.09	4194.44	
01142	M				66.95		2.3924		4.850				210206.01
		1.139	-0.16	1.55		-3038.08		-2984.59		0.00	0.07	-2984.52	
006251	M				66.96		2.3957		4.848				207221.50
		0.247	0.35	0.76		-3892.89		-3824.36		0.00	0.01	-3824.35	
01156	K				66.97		2.3967		4.847				203397.15
		1.442	-0.05	0.29		5668.17		5568.38		0.01	0.09	5568.48	
00M201	M				67.00		2.3957		4.838				208965.64

1	2	3	4	5	6	7	8	9	10	11	12	13	14
00M201	M				67.00		2.3957		4.838				208965.64
		0.923	0.03	0.15		5490.03		5393.38		0.01	0.06	5393.45	
01143	M				67.02		2.3947		4.829				214359.09
		1.284	-0.02	-0.47		-1016.75		-998.86		0.02	0.08	-998.76	
01144	M				67.06		2.3956		4.817				213360.32
		1.048	0.02	-0.40		2427.23		2384.50		0.01	0.06	2384.57	
53575	M				67.09		2.3969		4.808				215744.90
		1.641	-0.03	-0.75		677.07		665.15		0.03	0.10	665.28	
01145	M				67.14		2.3976		4.791				216410.18
		1.164	0.09	-0.28		4236.84		4162.26		0.02	0.07	4162.35	
01146	M				67.17		2.3975		4.779				220572.53
		0.945	0.06	0.75		-3332.13		-3273.48		0.02	0.06	-3273.40	
53576	M				67.20		2.3993		4.769				217299.12
		0.825	0.05	-0.17		-4240.88		-4166.24		0.01	0.05	-4166.18	
01153	S				67.23		2.3979		4.761				213132.94
		1.494	-0.03	-0.33		11298.79		11099.91		0.02	0.09	11100.02	
01154	M				67.27		2.3969		4.747				224232.96
		1.523	-0.01	0.91		7458.02		7326.74		0.03	0.09	7326.86	
01120	M				67.32		2.3964		4.731				231559.81
		1.856	-0.15	-1.04		8960.39		8802.66		0.03	0.11	8802.80	
53578	M				67.37		2.3961		4.712				240362.62
		1.622	-0.01	-0.90		-2247.35		-2207.79		0.03	0.10	-2207.66	
01119	M				67.41		2.3973		4.696				238154.95
		1.840	-1.77	-0.82		24968.19		24528.64		0.03	0.11	24528.78	
53579	M				67.45		2.3940		4.679				262683.74
		0.925	0.12	-0.70		-3715.64		-3650.23		0.01	0.06	-3650.16	
01118	M				67.46		2.3948		4.671				259033.58
		1.922	0.38	-0.68		-16436.65		-16147.31		0.03	0.12	-16147.16	
01117	S				67.50		2.3984		4.652				242886.42
		1.321	-0.04	1.68		14562.14		14305.81		0.02	0.08	14305.91	
01116	M				67.54		2.3965		4.638				257192.33
		1.740	-0.86	0.55		42125.72		41384.04		0.02	0.10	41384.16	
53581	M				67.57		2.3903		4.623				298576.49
		1.007	0.03	-0.55		7562.10		7428.95		0.02	0.06	7429.03	
01152	M				67.60		2.3914		4.612				306005.51
		0.998	-0.04	-0.05		3187.27		3131.14		0.01	0.06	3131.21	
53582	M				67.62		2.3922		4.603				309136.72
		0.612	-0.03	-0.58		-356.10		-349.83		0.01	0.04	-349.78	
01158	K				67.63		2.3915		4.599				308786.95
		1.594	0.03	1.01		-17185.59		-16882.94		0.02	0.10	-16882.82	
01121	K				67.64		2.3870		4.588				291904.12
		0.140	-0.02	0.12		-1017.00		-999.09		0.00	0.01	-999.08	
53583	M				67.64		2.3872		4.587				290905.04
		1.274	0.03	1.44		-6384.99		-6272.54		0.01	0.08	-6272.45	
01115	M				67.66		2.3885		4.579				284632.58
		0.902	0.04	0.80		-4741.86		-4658.35		0.01	0.05	-4658.29	
01114	M				67.67		2.3893		4.571				279974.30
		1.521	0.06	1.17		-11117.83		-10922.06		0.02	0.09	-10921.95	
01113	M				67.71		2.3923		4.557				269052.34
		1.429	-0.09	2.43		-10959.35		-10766.42		0.03	0.09	-10766.30	
99M9902	M				67.75		2.3997		4.541				258286.04
		1.365	0.06	1.27		-9573.87		-9405.41		0.02	0.08	-9405.31	
01112	M				67.78		2.4094		4.527				248880.74
		1.726	-0.01	3.04		-850.32		-835.36		0.03	0.10	-835.23	
01111	M				67.83		2.4118		4.507				248045.52
		1.038	0.14	2.37		14770.72		14510.91		0.02	0.06	14510.99	
01109	M				67.86		2.4097		4.496				262556.51
		1.016	-0.24	0.72		-14807.21		-14546.77		0.02	0.06	-14546.69	
53587	M				67.89		2.4133		4.484				248009.82
		1.318	0.02	1.02		-1324.44		-1301.15		0.02	0.08	-1301.05	
01110	M				67.93		2.4147		4.469				246708.77
		1.719	0.11	1.78		16740.06		16445.68		0.03	0.10	16445.81	
53588	M				67.98		2.4139		4.453				263154.58
		0.733	0.08	0.02		2529.64		2485.16		0.01	0.04	2485.21	
58101	M				67.99		2.4151		4.447				265639.81
		1.617	-0.12	1.19		4769.58		4685.71		0.03	0.10	4685.84	
58102	M				68.04		2.4173		4.431				270325.65

1	2	3	4	5	6	7	8	9	10	11	12	13	14
58102	M				68.04		2.4173		4.431				270325.65
		2.471	0.08	1.09		-1081.03		-1062.02		0.05	0.15	-1061.82	
58103	M				68.11		2.4221		4.403				269263.82
		1.801	-0.08	2.51		20203.76		19848.61		0.03	0.11	19848.75	
58104	M				68.17		2.4213		4.383				289112.57
		1.371	0.04	1.47		-2618.87		-2572.83		0.02	0.08	-2572.73	
01108	K				68.20		2.4238		4.369				286539.85
		103.454	-2.69	47.42		113619.97		111620.42		1.40	6.24	111628.06	

73 B TANKAVAARA - IVALO 2001.46

01108	K				68.20		2.4238		4.369				286539.85
		2.105	0.05	4.20		-251.66		-247.24		0.03	0.13	-247.08	
01107	M				68.26		2.4268		4.345				286292.76
		0.999	-0.36	1.89		-17289.60		-16985.80		0.02	0.06	-16985.72	
01106	M				68.28		2.4309		4.335				269307.04
		2.723	-0.02	2.88		11996.02		11785.26		0.03	0.16	11785.45	
01105	M				68.32		2.4302		4.313				281092.49
		3.141	0.26	1.21		-7232.60		-7105.54		0.05	0.19	-7105.30	
01104	K				68.39		2.4332		4.278				273987.19
		1.541	-0.03	1.09		6364.41		6252.61		0.03	0.09	6252.73	
01103	K				68.43		2.4333		4.259				280239.92
		0.381	-0.20	0.09		-13388.96		-13153.78		0.01	0.02	-13153.75	
01102	S				68.44		2.4364		4.254				267086.17
		1.569	0.25	1.63		16734.37		16440.45		0.03	0.09	16440.57	
58110	M				68.47		2.4343		4.236				283526.75
		1.631	0.29	0.79		17080.16		16780.12		0.03	0.10	16780.25	
58111	M				68.52		2.4322		4.215				300306.99
		2.680	0.05	2.11		-10506.73		-10322.17		0.05	0.16	-10321.96	
58112	M				68.60		2.4368		4.181				289985.04
		1.598	0.11	2.46		-2452.30		-2409.23		0.03	0.10	-2409.10	
01101	M				68.64		2.4383		4.161				287575.93
		1.190	0.06	0.99		4882.88		4797.13		0.02	0.07	4797.22	
58113	K				68.67		2.4381		4.146				292373.15
		1.437	-0.48	2.47		-31376.31		-30825.40		0.03	0.09	-30825.28	
MP159	P				68.71		2.4453		4.129				261547.87
		1.702	-0.15	2.44		19183.23		18846.45		0.03	0.10	18846.58	
58115	M				68.76		2.4427		4.107				280394.45
		1.972	-0.12	1.76		-4620.87		-4539.74		0.04	0.12	-4539.58	
58116	K				68.82		2.4448		4.082				275854.86
		1.078	0.00	1.55		-7028.28		-6904.90		0.02	0.06	-6904.82	
58117	K				68.84		2.4470		4.070				268950.06
		2.071	0.18	2.34		15933.64		15653.94		0.04	0.12	15654.10	
58118	K				68.90		2.4451		4.043				284604.15
		0.840	0.01	0.82		-3403.70		-3343.95		0.01	0.05	-3343.89	
58120	K				68.91		2.4460		4.036				281260.27
		2.696	0.50	4.44		25705.26		25253.99		0.05	0.16	25254.20	
58121	M				68.99		2.4433		4.000				306514.47
		0.962	0.05	2.07		6391.16		6278.95		0.02	0.06	6279.03	
58122	M				69.02		2.4429		3.989				312793.51
		2.367	0.78	3.27		26370.13		25907.12		0.04	0.14	25907.30	
AP0401	M				69.08		2.4412		3.959				338700.81
		1.288	-0.19	2.00		-5081.25		-4992.04		0.02	0.08	-4991.94	
01202	M				69.11		2.4442		3.943				333708.87
		1.462	0.17	1.13		-20747.53		-20383.35		0.03	0.09	-20383.23	
58126	K				69.15		2.4493		3.926				313325.64
		1.326	0.12	0.47		-57846.95		-56832.05		0.02	0.08	-56831.95	
58127	K				69.19		2.4612		3.910				256493.69
		2.627	0.24	2.22		-44772.72		-43987.70		0.05	0.16	-43987.49	
72010	M				69.26		2.4719		3.875				212506.20
		3.487	-0.59	2.84		-31281.22		-30733.06		0.06	0.21	-30732.79	
58130	K				69.33		2.4808		3.835				181773.41
		1.507	-0.24	1.07		-12154.39		-11941.48		0.03	0.09	-11941.36	
58131	M				69.37		2.4843		3.816				169832.05
		1.372	-0.08	1.76		-6465.97		-6352.73		0.03	0.08	-6352.62	
58132	M				69.41		2.4874		3.799				163479.43

1	2	3	4	5	6	7	8	9	10	11	12	13	14
58132	M				69.41		2.4874		3.799				163479.43
		2.240	-0.01	2.26		-3224.23		-3167.77		0.04	0.13	-3167.60	
01203	M				69.47		2.4906		3.770				160311.85
		1.817	-0.13	1.91		-4924.98		-4838.75		0.02	0.11	-4838.62	
58134	M				69.52		2.4925		3.753				155473.22
		1.497	-0.02	3.02		-4854.49		-4769.51		0.02	0.09	-4769.40	
58135	K				69.56		2.4944		3.737				150703.82
		1.100	-0.04	2.39		23212.24		22805.85		0.02	0.07	22805.94	
58136	M				69.59		2.4905		3.726				173509.75
		1.330	0.16	1.46		-16639.65		-16348.33		0.03	0.08	-16348.22	
01204	M				69.63		2.4942		3.708				157161.53
		1.481	-0.04	2.65		-13433.88		-13198.73		0.03	0.09	-13198.61	
01201	K				69.67		2.4980		3.688				143962.93
		1.714	-0.22	0.49		-16250.75		-15966.36		0.03	0.10	-15966.23	
58139	M				69.69		2.5017		3.670				127996.70
		1.661	-0.07	1.28		-6046.01		-5940.22		0.02	0.10	-5940.10	
58140	S				69.72		2.5030		3.655				122056.60
		1.046	0.05	1.64		-1821.55		-1789.68		0.02	0.06	-1789.60	
58141	K				69.75		2.5035		3.640				120267.01
		0.085	-0.07	0.03		8878.85		8723.49		0.00	-0.04	8723.45	
01205	K				69.75		2.5018		3.641				128990.45
		61.723	0.27	69.12		-160364.22		-157554.14		1.08	3.65	-157549.41	

74 VAALIMAA-SIMOLA 1980.74

38042	K				38.28		1.9140		1.551				38526.78
		2.074	-0.11	0.15		-6010.81		-5902.11		0.26	0.07	-5901.78	
80108	M				38.33		1.9162		1.565				32625.00
		0.560	0.21	-0.19		-10950.08		-10752.07		0.10	0.02	-10751.95	
554001	M				38.35		1.9188		1.570				21873.05
		1.354	0.22	0.19		8453.40		8300.55		0.06	0.04	8300.65	
80109	K				38.39		1.9176		1.573				30173.70
		1.286	-0.85	-1.27		-10323.11		-10136.46		-0.02	0.04	-10136.44	
80110	K				38.41		1.9202		1.572				20037.27
		1.726	0.47	-0.40		13220.47		12981.43		0.05	0.06	12981.54	
80111	K				38.46		1.9178		1.575				33018.81
		1.384	0.18	0.39		-2933.60		-2880.55		0.21	0.04	-2880.30	
554003	K				38.51		1.9187		1.586				30138.51
		1.526	0.21	-0.16		-4.09		-4.02		0.15	0.05	-3.82	
80112	K				38.57		1.9191		1.594				30134.69
		1.614	-0.03	0.08		581.68		571.16		-0.04	0.05	571.17	
80113	K				38.59		1.9192		1.592				30705.87
		1.570	0.28	-0.20		1292.21		1268.85		0.12	0.05	1269.02	
80114	K				38.65		1.9193		1.598				31974.89
		0.646	0.58	-0.08		20453.16		20083.31		0.10	0.02	20083.43	
554005	K				38.67		1.9154		1.603				52058.32
		0.554	-0.76	0.08		-22087.06		-21687.68		0.08	0.02	-21687.58	
80115	K				38.69		1.9200		1.607				30370.74
		1.112	0.19	-0.24		-447.69		-439.59		0.09	0.04	-439.46	
80116	K				38.73		1.9207		1.612				29931.28
		1.768	0.49	-0.21		8925.51		8764.14		0.03	0.06	8764.23	
80117	M				38.77		1.9194		1.613				38695.50
		2.222	0.07	-0.21		-3637.01		-3571.25		-0.08	0.07	-3571.26	
554008	K				38.81		1.9201		1.609				35124.25
		2.768	0.98	-0.25		16431.94		16134.84		0.42	0.09	16135.35	
80118	K				38.91		1.9182		1.631				51259.60
		1.384	0.07	-0.40		-1978.97		-1943.19		0.26	0.04	-1942.89	
554010	M				38.95		1.9184		1.644				49316.71
		2.048	0.82	0.15		14129.48		13873.98		0.25	0.07	13874.30	
80119	K				39.02		1.9164		1.657				63191.01
		1.266	-0.28	-0.24		-15310.19		-15033.36		0.10	0.04	-15033.22	
80120	K				39.06		1.9199		1.663				48157.79
		2.324	0.19	-0.05		-2611.57		-2564.36		-0.11	0.07	-2564.40	
80121	K				39.10		1.9211		1.657				45593.39
		2.188	0.68	0.18		10306.13		10119.81		0.10	0.07	10119.98	
80122	K				39.17		1.9209		1.662				55713.37

1	2	3	4	5	6	7	8	9	10	11	12	13	14
80122	K				39.17		1.9209		1.662				55713.37
		2.006	0.23	0.10		4343.61		4265.08		-0.10	0.06	4265.04	
80123	K				39.21		1.9207		1.657				59978.42
		1.352	0.66	0.22		7796.03		7655.08		0.10	0.04	7655.22	
80124	K				39.25		1.9198		1.662				67633.65
		1.634	-0.55	-0.36		-11332.88		-11127.99		0.08	0.05	-11127.86	
80125	K				39.30		1.9225		1.666				56505.79
		1.350	0.00	-0.12		-7244.23		-7113.28		0.10	0.04	-7113.14	
80126	K				39.35		1.9242		1.671				49392.66
		1.606	0.22	0.80		3497.22		3434.01		0.21	0.05	3434.27	
80127	K				39.41		1.9248		1.682				52826.93
		1.954	0.42	0.08		5123.34		5030.76		0.29	0.06	5031.11	
80128	K				39.49		1.9277		1.697				57858.03
		1.498	0.07	0.04		-2129.80		-2091.31		0.28	0.05	-2090.98	
80129	K				39.54		1.9304		1.711				55767.06
		1.510	-0.49	0.12		598.98		588.15		0.19	0.05	588.39	
80206	K				39.59		1.9319		1.721				56355.45
		0.166	-0.34	-0.05		-1693.63		-1663.03		0.03	0.21	-1662.79	
80130	K				39.60		1.9323		1.723				54692.64
		44.450	3.83	-1.85		16458.45		16160.92		3.31	1.62	16165.85	

75 A LAHTI-HARTOLA 1982.40

LKP270	K				39.83		1.9431		2.844				105198.65
		0.012	-0.02	-0.73		-337.19		-331.11		0.00	0.00	-331.11	
82101	K				39.82		1.9432		2.844				104867.55
		1.782	-0.48	0.87		-6885.91		-6761.59		0.36	0.37	-6760.86	
364	M				39.86		1.9476		2.864				98106.69
		1.718	0.64	-1.01		10709.84		10516.49		-0.06	0.05	10516.48	
LKP204	M				39.87		1.9453		2.860				108623.18
		0.454	-0.09	0.00		-2450.51		-2406.27		0.03	0.01	-2406.23	
LKP238	K				39.89		1.9457		2.862				106216.96
		0.668	-0.08	-0.92		-5004.91		-4914.55		-0.03	0.02	-4914.56	
7054	K				39.90		1.9464		2.860				101302.40
		1.404	-0.04	-0.46		-4038.64		-3965.73		0.05	0.04	-3965.64	
82102	K				39.95		1.9477		2.863				97336.75
		0.850	0.06	-0.61		1900.77		1866.46		-0.12	0.03	1866.37	
LKP438	K				39.95		1.9468		2.856				99203.12
		1.370	0.22	-0.08		7975.26		7831.27		-0.08	0.04	7831.23	
440	K				39.98		1.9435		2.852				107034.35
		1.356	0.64	-0.77		10289.94		10104.13		0.07	0.04	10104.24	
493	K				40.02		1.9404		2.856				117138.59
		1.362	0.16	-0.17		4129.76		4055.18		-0.11	0.04	4055.11	
24/003	K				40.04		1.9399		2.850				121193.70
		0.780	-0.17	0.79		-5771.67		-5667.44		0.07	0.02	-5667.35	
LKP496	K				40.07		1.9418		2.854				115526.36
		1.000	-0.31	-0.15		-7820.55		-7679.33		0.13	0.03	-7679.17	
24/017	K				40.10		1.9442		2.861				107847.20
		2.142	0.42	0.00		6465.02		6348.29		0.13	0.07	6348.49	
1176	K				40.17		1.9442		2.869				114195.68
		1.564	0.27	-0.03		-4830.67		-4743.45		0.25	0.05	-4743.15	
VR1376	S				40.23		1.9444		2.883				109452.53
		1.190	-0.30	-0.73		-2446.75		-2402.57		0.07	0.04	-2402.46	
1476	K				40.27		1.9427		2.887				107050.07
		1.356	-0.21	-0.19		-2794.63		-2744.16		0.01	0.04	-2744.11	
VR1576	K				40.31		1.9429		2.887				104305.97
		1.736	0.52	-0.34		5336.73		5240.37		-0.02	0.05	5240.40	
1676	K				40.35		1.9424		2.886				109546.36
		1.000	0.55	-0.54		6362.94		6248.03		0.14	0.03	6248.20	
1776	K				40.39		1.9416		2.894				115794.57
		0.856	0.00	0.42		379.02		372.18		0.03	0.03	372.24	
VR1876	R				40.41		1.9416		2.896				116166.80
		1.612	0.07	1.09		11019.95		10820.93		-0.19	0.05	10820.79	
1976	K				40.42		1.9384		2.885				126987.59
		1.326	0.35	0.70		-6.56		-6.44		0.01	0.04	-6.39	
2076	K				40.45		1.9379		2.885				126981.20

1	2	3	4	5	6	7	8	9	10	11	12	13	14
2076	K				40.45		1.9379		2.885				126981.20
		1.542	-0.92	0.02		-11745.81		-11533.67		0.20	0.05	-11533.42	
2176	M				40.51		1.9409		2.896				115447.78
		1.284	-0.27	0.17		-7005.39		-6878.88		0.08	0.04	-6878.76	
2276	K				40.55		1.9428		2.901				108569.02
		0.556	-0.19	-0.08		-6134.30		-6023.54		0.06	0.02	-6023.46	
2376	K				40.57		1.9441		2.904				102545.56
		2.430	0.11	0.71		-245.92		-241.48		0.32	0.07	-241.09	
2476	K				40.66		1.9434		2.922				102304.47
		1.406	0.10	0.17		3782.44		3714.14		0.19	0.04	3714.37	
2576	M				40.72		1.9428		2.933				106018.83
		0.800	0.03	-0.19		-2921.55		-2868.80		0.12	0.02	-2868.66	
2676	M				40.74		1.9438		2.940				103150.19
		1.640	-0.08	0.20		-4046.72		-3973.66		0.19	0.05	-3973.42	
2776	M				40.80		1.9450		2.951				99176.77
		0.916	0.02	0.44		-852.46		-837.07		-0.05	0.03	-837.09	
781163	M				40.82		1.9445		2.948				98339.68
		0.756	-0.01	-0.51		-2588.24		-2541.51		-0.03	0.02	-2541.52	
2876	M				40.83		1.9449		2.946				95798.16
		0.726	0.16	0.44		241.67		237.31		-0.05	0.02	237.28	
2976	K				40.84		1.9451		2.943				96035.44
		0.732	-0.01	0.09		-1942.23		-1907.16		0.08	0.02	-1907.06	
104	K				40.86		1.9457		2.948				94128.38
		0.377	-0.04	0.28		-2104.59		-2066.60		0.05	0.01	-2066.54	
781164	K				40.87		1.9464		2.951				92061.85
		0.694	0.22	1.17		9938.99		9759.55		0.11	0.02	9759.68	
781165	K				40.89		1.9456		2.957				101821.53
		0.462	0.01	0.43		-1603.28		-1574.34		0.00	0.01	-1574.33	
781166	K				40.90		1.9466		2.957				100247.20
		0.626	-0.01	0.79		-5269.56		-5174.44		0.06	0.02	-5174.36	
781167	K				40.92		1.9491		2.960				95072.83
		0.332	-0.04	0.58		-6288.09		-6174.59		0.04	0.01	-6174.54	
781168	K				40.93		1.9510		2.962				88898.29
		1.094	0.03	0.17		644.35		632.72		0.17	0.03	632.92	
KP235	K				40.97		1.9528		2.972				89531.22
		1.394	0.08	0.02		-2575.05		-2528.58		0.25	0.04	-2528.29	
801111	K				41.02		1.9547		2.986				87002.93
		0.692	-0.11	0.27		-4989.94		-4899.90		0.07	0.02	-4899.81	
592801	K				41.04		1.9558		2.990				82103.12
		1.148	0.49	0.98		13854.40		13604.39		0.05	0.04	13604.48	
801112	K				41.07		1.9537		2.993				95707.60
		0.988	0.19	0.37		2753.78		2704.09		0.09	0.03	2704.21	
801113	K				41.10		1.9539		2.998				98411.81
		1.170	1.06	0.44		16495.11		16197.43		0.19	0.04	16197.66	
801114	K				41.14		1.9525		3.009				114609.46
		0.958	-0.24	0.01		-1665.29		-1635.24		0.15	0.03	-1635.06	
592803	K				41.18		1.9557		3.017				112974.39
		1.458	-0.51	0.06		-25154.04		-24700.25		0.28	0.04	-24699.93	
801115	M				41.22		1.9633		3.033				88274.48
		1.128	0.91	-0.92		1025.72		1007.22		0.09	0.03	1007.34	
592804	K				41.26		1.9634		3.038				89281.82
		1.010	-1.67	-1.60		-3975.38		-3903.68		0.15	0.03	-3903.50	
811301	M				41.28		1.9649		3.047				85378.33
		0.832	-0.14	-0.62		16391.22		16095.62		0.18	0.03	16095.83	
602101	K				41.30		1.9649		3.057				101474.15
		0.924	-0.48	-0.05		17501.88		17186.23		0.22	0.03	17186.48	
811302	K				41.32		1.9646		3.070				118660.64
		1.072	-0.10	0.52		2635.15		2587.63		0.21	0.03	2587.87	
602102	K				41.36		1.9688		3.082				121248.51
		0.975	-0.13	1.54		-6480.69		-6363.85		0.13	0.03	-6363.69	
811303	K				41.39		1.9717		3.089				114884.81
		1.058	0.29	1.08		-631.32		-619.94		0.19	0.03	-619.72	
602103	K				41.43		1.9730		3.100				114265.09
		1.206	0.04	0.95		-1158.15		-1137.28		0.18	0.04	-1137.06	
811304	K				41.47		1.9740		3.110				113128.03
		1.072	0.67	-0.20		24471.47		24030.29		0.15	0.03	24030.47	
811305	K				41.51		1.9693		3.119				137158.50

1	2	3	4	5	6	7	8	9	10	11	12	13	14
811305	K				41.51		1.9693		3.119				137158.50
		0.746	0.15	-0.05		16481.74		16184.54		0.08	0.02	16184.64	
811306	K				41.53		1.9661		3.123				153343.15
		0.876	-0.11	0.25		-16811.24		-16508.12		0.14	0.03	-16507.95	
602105	K				41.56		1.9712		3.131				136835.20
		1.162	0.15	0.07		-10268.26		-10083.16		0.21	0.04	-10082.91	
811307	K				41.60		1.9764		3.142				126752.29
		0.952	0.08	0.00		-2005.62		-1969.47		0.17	0.03	-1969.27	
602106	K				41.64		1.9781		3.152				124783.02
		1.144	-0.29	-0.12		-13223.38		-12985.09		0.23	0.04	-12984.82	
811308	K				41.68		1.9818		3.165				111798.19
		0.990	0.45	1.42		3246.85		3188.35		0.21	0.03	3188.59	
602107	K				41.72		1.9822		3.177				114986.78
		1.232	0.52	-0.31		13808.66		13559.86		0.25	0.04	13560.15	
811309	K				41.76		1.9824		3.191				128546.92
		0.880	-0.19	-0.24		-11434.60		-11228.60		0.20	0.03	-11228.37	
602108	K				41.78		1.9864		3.202				117318.55
		0.782	-0.21	0.01		-9115.49		-8951.31		0.18	0.02	-8951.11	
811310	K				41.80		1.9893		3.213				108367.44
		1.018	0.17	0.10		5143.79		5051.14		0.24	0.03	5051.41	
602109	K				41.83		1.9890		3.226				113418.85
		1.154	0.03	-0.64		4078.24		4004.79		0.27	0.04	4005.10	
811311	K				41.86		1.9890		3.242				117423.95
		1.290	0.13	0.30		2259.70		2219.00		0.32	0.04	2219.36	
602110	K				41.90		1.9910		3.260				119643.31
		0.916	0.14	-0.06		2658.99		2611.11		0.14	0.03	2611.28	
811312	K				41.93		1.9920		3.268				122254.59
		0.982	-0.03	-0.39		-7109.74		-6981.72		0.16	0.03	-6981.53	
602111	K				41.97		1.9947		3.277				115273.06
		0.690	-0.02	0.48		-11941.64		-11726.65		0.11	0.02	-11726.52	
811313	K				41.99		1.9979		3.283				103546.54
		1.186	-0.08	-0.21		-4978.12		-4888.51		0.23	0.04	-4888.24	
602112	K				42.03		2.0003		3.296				98658.30
		0.722	-0.03	0.21		-1592.88		-1564.21		0.12	0.02	-1564.07	
811314	M				42.06		2.0012		3.303				97094.24
		0.950	0.00	0.78		-4541.50		-4459.77		0.17	0.03	-4459.57	
602113	M				42.09		2.0027		3.313				92634.67
		1.350	0.07	-0.61		-1040.80		-1022.07		0.22	0.04	-1021.81	
811316	K				42.14		2.0049		3.326				91612.86
		1.632	0.10	-0.46		2051.77		2014.85		0.13	0.05	2015.03	
602114	K				42.19		2.0065		3.333				93627.89
		0.112	0.03	0.20		767.83		754.01		0.03	0.00	754.04	
82103	K				42.19		2.0064		3.335				94381.93
		79.762	2.72	5.60		-11026.30		-10828.17		8.67	2.74	-10816.76	

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82103	K				42.19		2.0064		3.335				94381.93
		1.258	0.18	0.05		1020.46		1002.10		0.09	0.04	1002.23	
811317	M				42.23		2.0071		3.340				95384.16
		0.790	0.14	0.22		6544.86		6427.10		0.14	0.02	6427.26	
602115	M				42.26		2.0066		3.348				101811.42
		1.959	0.19	0.06		4311.27		4233.70		0.36	0.06	4234.12	
602116	M				42.33		2.0095		3.368				106045.54
		1.392	-0.17	-0.66		-13031.14		-12796.73		0.22	0.04	-12796.47	
811318	M				42.37		2.0136		3.381				93249.08
		2.449	0.04	0.45		10546.39		10356.69		0.44	0.08	10357.21	
82104	M				42.46		2.0127		3.407				103606.28
		1.982	0.05	0.49		459.26		451.01		0.36	0.06	451.43	
82105	K				42.54		2.0124		3.428				104057.70
		1.100	0.06	-0.13		-5958.97		-5851.79		0.20	0.03	-5851.56	
811324	M				42.58		2.0143		3.439				98206.16
		1.090	0.00	0.60		2993.31		2939.47		0.20	0.03	2939.70	
602119	M				42.62		2.0153		3.451				101145.86
		0.798	-0.03	0.81		-4403.87		-4324.67		0.12	0.02	-4324.53	
811325	M				42.64		2.0176		3.458				96821.34

1	2	3	4	5	6	7	8	9	10	11	12	13	14
811325	M				42.64		2.0176		3.458				96821.34
		0.762	0.07	-0.56		1057.14		1038.13		0.13	0.02	1038.28	
602120	M				42.67		2.0183		3.465				97859.62
		0.926	0.21	0.14		21239.22		20857.27		0.11	0.03	20857.41	
811326	M				42.70		2.0149		3.472				118717.03
		1.212	-0.63	1.27		-20693.53		-20321.41		0.11	0.04	-20321.26	
602121	K				42.74		2.0200		3.478				98395.76
		1.204	0.33	0.05		11608.84		11400.11		0.24	0.04	11400.39	
811327	M				42.79		2.0198		3.492				109796.15
		1.010	0.06	-0.15		17716.87		17398.31		0.15	0.03	17398.49	
602122	K				42.82		2.0185		3.500				127194.65
		1.154	0.40	-0.81		-20121.96		-19760.19		0.08	0.04	-19760.07	
811328	M				42.86		2.0238		3.505				107434.57
		1.228	-0.10	-0.22		-6465.18		-6348.96		0.12	0.04	-6348.80	
602123	M				42.90		2.0259		3.512				101085.77
		0.956	0.08	-0.46		1256.89		1234.29		0.13	0.03	1234.45	
811329	M				42.93		2.0266		3.520				102320.22
		1.632	0.05	0.58		-6433.95		-6318.33		0.32	0.05	-6317.96	
811330	M				42.99		2.0297		3.538				96002.26
		0.978	0.04	0.27		831.62		816.68		0.14	0.03	816.85	
602125	K				43.02		2.0301		3.546				96819.11
		1.942	0.12	0.00		5321.65		5226.02		0.08	0.06	5226.16	
602126	M				43.08		2.0300		3.551				102045.26
		1.008	0.19	-0.87		7581.16		7444.92		0.04	0.03	7444.99	
811332	M				43.10		2.0290		3.554				109490.25
		1.196	-0.04	-0.57		-6253.95		-6141.57		0.14	0.04	-6141.39	
82106	K				43.14		2.0307		3.562				103348.85
		1.128	-0.06	-0.36		656.89		645.09		0.17	0.03	645.29	
82107	M				43.18		2.0311		3.571				103994.15
		1.082	0.43	0.29		21023.90		20646.08		0.19	0.03	20646.30	
811334	K				43.22		2.0271		3.582				124640.45
		1.176	0.05	-0.15		5313.49		5217.99		0.27	0.04	5218.30	
811335	M				43.26		2.0261		3.598				129858.75
		1.028	0.17	-0.11		273.92		269.00		0.23	0.03	269.26	
811336	M				43.30		2.0263		3.611				130128.01
		0.800	0.20	0.59		2628.02		2580.78		0.20	0.02	2581.00	
811337	M				43.33		2.0261		3.623				132709.01
		1.066	0.49	-0.26		9372.46		9204.00		0.18	0.03	9204.21	
602130	K				43.36		2.0248		3.633				141913.23
		0.906	0.03	0.44		-2368.75		-2326.17		0.16	0.03	-2325.98	
811338	K				43.39		2.0253		3.643				139587.24
		0.902	0.21	-0.39		-9444.70		-9274.94		0.16	0.03	-9274.75	
602131	K				43.42		2.0269		3.652				130312.49
		0.810	-0.05	-0.13		1629.32		1600.04		0.15	0.02	1600.21	
811339	K				43.45		2.0255		3.661				131912.71
		2.204	0.50	0.91		3086.44		3030.96		0.41	0.07	3031.44	
811340	K				43.53		2.0253		3.684				134944.15
		2.126	-0.02	0.35		10843.53		10648.60		0.38	0.07	10649.05	
811341	M				43.61		2.0230		3.706				145593.19
		1.172	0.08	-0.21		3792.46		3724.28		0.21	0.04	3724.53	
811342	M				43.65		2.0219		3.718				149317.72
		0.784	0.41	0.06		13995.06		13743.44		0.13	0.02	13743.59	
811343	K				43.68		2.0194		3.726				163061.31
		1.088	0.31	-0.06		11323.47		11119.86		0.16	0.03	11120.05	
602135	K				43.72		2.0179		3.735				174181.36
		0.929	-0.49	-0.10		-9741.72		-9566.56		0.12	0.03	-9566.41	
811344	K				43.75		2.0204		3.743				164614.95
		0.804	-0.15	0.80		1611.51		1582.54		0.15	0.02	1582.71	
811345	M				43.77		2.0206		3.751				166197.68
		1.086	-0.14	-0.51		-22654.17		-22246.92		0.15	0.03	-22246.74	
602136	K				43.81		2.0255		3.760				143950.94
		1.116	0.04	0.41		-3867.88		-3798.35		0.16	0.03	-3798.16	
802747	M				43.85		2.0250		3.769				140152.79
		1.268	0.64	1.57		18538.13		18204.88		0.28	0.04	18205.20	
602137	M				43.90		2.0211		3.785				158357.98
		0.870	-0.10	-0.13		-6217.10		-6105.33		0.16	0.03	-6105.14	
KP4	K				43.92		2.0222		3.795				152252.83

1	2	3	4	5	6	7	8	9	10	11	12	13	14
KP4	K				43.92		2.0222		3.795				152252.83
		1.580	0.40	-0.60		-20945.15		-20568.65		0.33	0.05	-20568.27	
602138	M				43.97		2.0263		3.814				131684.57
		1.624	0.15	0.03		3432.92		3371.22		0.37	0.05	3371.64	
602139	M				44.03		2.0253		3.835				135056.21
		1.666	-0.17	0.04		-9658.76		-9485.15		0.39	0.05	-9484.71	
82108	M				44.08		2.0258		3.858				125571.50
		1.250	0.14	-0.08		12561.65		12335.85		0.36	0.04	12336.25	
602140	M				44.12		2.0234		3.879				137907.76
		1.268	0.35	0.84		17609.16		17292.59		0.33	0.04	17292.96	
82109	K				44.16		2.0209		3.898				155200.71
		1.400	-0.03	0.28		-5612.70		-5511.79		0.32	0.04	-5511.43	
82110	M				44.21		2.0231		3.916				149689.28
		1.542	0.32	-0.45		21116.81		20737.16		0.37	0.05	20737.58	
602142	K				44.26		2.0199		3.938				170426.87
		1.066	0.17	1.21		14618.71		14355.85		0.27	0.03	14356.15	
82111	K				44.30		2.0177		3.954				184783.02
		1.166	0.23	0.36		5130.34		5038.08		0.23	0.04	5038.35	
602143	K				44.34		2.0181		3.967				189821.37
		1.696	0.04	0.21		-4533.46		-4451.94		0.32	0.05	-4451.57	
602144	K				44.41		2.0203		3.985				185369.79
		1.164	-0.17	0.10		-24751.16		-24306.21		0.18	0.04	-24305.99	
82112	K				44.44		2.0256		3.996				161063.81
		1.405	-0.06	0.54		-45960.84		-45134.92		0.35	0.04	-45134.53	
602145	K				44.50		2.0345		4.016				115929.28
		1.351	0.24	0.11		-10835.08		-10640.44		0.29	0.04	-10640.11	
602146	K				44.54		2.0374		4.033				105289.18
		0.831	0.16	0.40		-17595.35		-17279.32		0.21	0.03	-17279.08	
712746	M				44.57		2.0409		4.045				88010.09
		1.066	0.28	-0.39		7676.03		7538.16		0.26	0.03	7538.45	
712747	M				44.61		2.0383		4.060				95548.54
		1.024	0.07	-0.05		-1089.97		-1070.40		0.22	0.03	-1070.15	
712748	M				44.64		2.0379		4.073				94478.39
		1.118	0.10	0.30		9520.22		9349.21		0.28	0.03	9349.52	
712749	M				44.67		2.0356		4.089				103827.93
		0.998	-0.01	0.40		-14154.70		-13900.44		0.28	0.03	-13900.13	
712750	K				44.70		2.0388		4.105				89927.79
		1.092	0.34	0.41		6586.21		6467.91		0.28	0.03	6468.22	
712751	M				44.73		2.0376		4.121				96396.01
		1.034	0.24	0.05		21786.30		21394.92		0.28	0.03	21395.23	
712752	M				44.75		2.0331		4.137				117791.25
		1.052	-0.20	-0.77		-16575.65		-16277.86		0.27	0.03	-16277.56	
712753	K				44.78		2.0362		4.153				101513.68
		0.872	-0.22	0.89		-10483.93		-10295.61		0.16	0.03	-10295.42	
712754	M				44.78		2.0381		4.162				91218.26
		1.244	-0.06	0.24		-5426.83		-5329.36		0.26	0.04	-5329.06	
712755	M				44.79		2.0398		4.177				85889.20
		1.124	-0.02	-0.15		8544.22		8390.77		0.31	0.03	8391.11	
712756	M				44.83		2.0405		4.195				94280.30
		0.974	-0.26	-0.10		6588.31		6469.99		0.23	0.03	6470.25	
712757	K				44.86		2.0409		4.209				100750.55
		0.912	-0.08	-1.92		-1753.63		-1722.14		0.11	0.03	-1722.00	
712758	M				44.89		2.0423		4.215				99028.55
		1.274	0.27	1.02		6385.58		6270.91		0.17	0.04	6271.12	
712759	M				44.93		2.0420		4.225				105299.67
		0.821	-0.22	-1.27		-13450.33		-13208.81		0.19	0.03	-13208.59	
712760	M				44.96		2.0449		4.235				92091.08
		0.968	0.33	0.15		11080.35		10881.41		0.22	0.03	10881.66	
712761	M				45.00		2.0446		4.248				102972.73
		1.060	0.05	0.07		-8297.34		-8148.37		0.24	0.03	-8148.10	
712762	K				45.03		2.0485		4.262				94824.64
		0.976	-0.13	-0.48		-10851.69		-10656.91		0.24	0.03	-10656.64	
712763	M				45.06		2.0526		4.276				84168.00
		1.080	0.35	-0.36		3829.39		3760.66		0.21	0.03	3760.90	
712764	M				45.10		2.0527		4.288				87928.90
		1.072	0.19	-0.40		2422.49		2379.03		0.13	0.03	2379.19	
712765	M				45.14		2.0518		4.296				90308.08

1	2	3	4	5	6	7	8	9	10	11	12	13	14
712765	M				45.14		2.0518		4.296				90308.08
		1.122	0.02	0.55		-8294.04		-8145.18		0.25	0.03	-8144.90	
712766	M				45.18		2.0531		4.310				82163.19
		0.957	0.33	-0.32		13872.44		13623.45		0.20	0.03	13623.68	
712767	M				45.21		2.0507		4.322				95786.87
		1.134	-0.22	0.03		-8457.97		-8306.17		0.28	0.03	-8305.86	
KPV	K				45.25		2.0534		4.338				87481.01
		2.052	0.31	-0.16		127.62		125.33		0.29	0.06	125.68	
78002	K				45.26		2.0531		4.355				87606.71
		94.406	7.02	4.30		-6919.17		-6795.75		17.62	2.86	-6775.27	

76 A LIELAHTI-KOLUNPERÄ 1987.82

TKP710	K				42.14		1.9855		4.581				118700.92
		0.074	-0.03	0.05		4405.87		4326.49		0.00	-0.01	4326.48	
87301	K				42.14		1.9846		4.582				123027.41
		1.372	0.06	0.12		5164.59		5071.54		0.23	-0.19	5071.58	
87302	K				42.18		1.9840		4.601				128098.97
		1.428	0.07	-0.61		-10985.28		-10787.39		0.01	-0.20	-10787.58	
T811	M				42.21		1.9867		4.602				117311.39
		0.870	0.01	1.33		-6579.95		-6461.43		0.12	-0.12	-6461.43	
76202	M				42.24		1.9884		4.611				110849.96
		1.561	0.16	-1.46		13794.72		13546.24		0.29	-0.22	13546.31	
76203	K				42.29		1.9859		4.636				124396.28
		2.127	-0.23	-0.07		-4587.60		-4504.96		0.42	-0.30	-4504.84	
752304	P				42.34		1.9869		4.670				119891.44
		1.828	-0.13	-0.50		6896.58		6772.37		0.33	-0.26	6772.44	
76204	K				42.39		1.9868		4.697				126663.87
		1.556	0.00	0.98		12976.68		12742.93		0.33	-0.22	12743.04	
76205	K				42.44		1.9873		4.724				139406.92
		2.396	0.03	1.18		-16087.24		-15797.52		0.44	-0.34	-15797.42	
76206	K				42.53		1.9948		4.760				123609.50
		2.212	-0.21	1.56		-12875.92		-12644.11		0.41	-0.31	-12644.01	
76207	K				42.61		1.9987		4.794				110965.49
		1.468	0.03	1.17		2777.58		2727.58		0.26	-0.21	2727.63	
76208	K				42.66		1.9992		4.816				113693.13
		1.546	-0.54	-1.87		-9106.20		-8942.28		0.28	-0.22	-8942.22	
76209	K				42.72		1.9987		4.839				104750.91
		1.290	0.51	1.56		10246.25		10061.79		0.24	-0.18	10061.85	
76210	K				42.76		1.9959		4.859				114812.77
		1.414	0.24	-0.49		7267.55		7136.70		0.27	-0.20	7136.77	
76211	K				42.81		1.9949		4.881				121949.54
		2.083	-0.04	0.98		1705.51		1674.80		0.40	-0.29	1674.91	
76213	K				42.88		1.9938		4.914				123624.44
		1.670	-0.15	2.49		-5599.58		-5498.76		0.32	-0.24	-5498.68	
76214	K				42.93		1.9933		4.940				118125.77
		1.410	-0.33	-1.09		-3740.41		-3673.05		0.26	-0.20	-3672.99	
76215	K				42.98		1.9926		4.962				114452.77
		1.616	-0.09	1.66		-3906.42		-3836.08		0.30	-0.23	-3836.01	
76216	K				43.03		1.9927		4.987				110616.77
		2.694	0.36	-2.07		11317.22		11113.43		0.49	-0.38	11113.54	
76217	K				43.12		1.9930		5.027				121730.31
		2.682	-0.10	3.32		395.99		388.86		0.49	-0.38	388.97	
76218	K				43.21		1.9990		5.067				122119.28
		1.828	0.14	3.39		-3185.26		-3127.93		0.31	-0.26	-3127.88	
76219	K				43.27		2.0002		5.092				118991.42
		1.540	-0.51	-1.48		-3445.23		-3383.22		0.26	-0.22	-3383.18	
76220	K				43.33		2.0015		5.113				115608.23
		36.665	-0.75	10.15		-3150.54		-3093.98		6.46	-5.18	-3092.70	

76 B KOLUNPERÄ-PARKANO 1987.86

76220	K				43.33		2.0015		5.113				115608.23
		2.720	-0.10	-0.31		-5584.26		-5483.76		0.46	-0.38	-5483.68	
76221	K				43.42		2.0037		5.151				110124.56

1	2	3	4	5	6	7	8	9	10	11	12	13	14
76221	K				43.42		2.0037		5.151				110124.56
		2.324	0.19	-0.19		7907.79		7765.47		0.38	-0.33	7765.52	
76222	K				43.50		2.0029		5.182				117890.08
		2.002	1.05	0.94		11559.44		11351.39		0.33	-0.28	11351.44	
76223	M				43.57		2.0002		5.209				129241.52
		1.600	-0.04	-1.45		10006.26		9826.13		0.26	-0.23	9826.16	
76224	K				43.63		1.9976		5.231				139067.67
		1.402	0.14	-1.72		1634.62		1605.19		0.23	-0.20	1605.22	
76225	K				43.68		1.9978		5.249				140672.89
		2.070	0.02	-0.60		4587.64		4505.06		0.35	-0.29	4505.12	
76226	K				43.75		1.9988		5.278				145178.01
		1.960	0.05	-1.99		1017.13		998.82		0.30	-0.28	998.84	
76227	K				43.81		2.0001		5.302				146176.86
		1.836	-0.03	-0.70		-1777.17		-1745.18		0.29	-0.26	-1745.15	
76228	K				43.87		2.0009		5.326				144431.71
		1.352	-0.27	-1.79		-4875.40		-4787.65		0.20	-0.19	-4787.64	
76229	K				43.92		2.0019		5.343				139644.06
		1.498	-0.05	0.96		-102.46		-100.62		0.24	-0.21	-100.59	
76230	K				43.97		2.0018		5.362				139543.47
		0.624	-0.02	1.11		2483.07		2438.38		0.10	-0.09	2438.39	
76231	K				43.99		2.0013		5.370				141981.86
		1.770	0.09	0.38		4484.35		4403.63		0.27	-0.25	4403.65	
76232	M				44.04		2.0003		5.393				146385.52
		2.262	-1.04	-1.75		-12725.20		-12496.17		0.34	-0.32	-12496.15	
76233	K				44.12		2.0037		5.421				133889.36
		1.225	0.01	-1.14		2156.98		2118.16		0.18	-0.17	2118.17	
76234	K				44.16		2.0043		5.435				136007.54
		1.550	0.30	-0.69		6111.40		6001.42		0.23	-0.22	6001.43	
76235	K				44.21		2.0052		5.454				142008.97
		2.206	0.09	1.39		2933.95		2881.15		0.33	-0.31	2881.17	
76236	K				44.28		2.0059		5.481				144890.13
		2.200	0.07	2.41		5299.10		5203.75		0.32	-0.31	5203.76	
76237	K				44.35		2.0062		5.508				150093.89
		1.666	-0.16	-2.13		-6238.14		-6125.90		0.24	-0.23	-6125.89	
76238	K				44.41		2.0068		5.527				143967.99
		2.366	-0.17	-2.18		173.47		170.35		0.29	-0.33	170.31	
76239	K				44.50		2.0063		5.551				144138.30
		0.617	0.08	-0.84		-4915.20		-4826.76		0.02	-0.16	-4826.90	
50147	K				44.51		2.0074		5.552				139311.40
		35.250	0.21	-10.29		24137.35		23702.85		5.36	-5.04	23703.17	

77 A PARKANO-RAPPUKALLIO 1988.84

50147	K				44.51		2.0074		5.552				139311.40
		0.617	-0.08	-0.84		4915.20		4826.76		-0.01	0.15	4826.90	
76239	K				44.50		2.0063		5.551				144138.30
		2.730	-1.28	3.22		-15726.35		-15443.43		0.30	-0.23	-15443.36	
76240	K				44.60		2.0126		5.578				128694.94
		2.450	-0.03	0.84		409.29		401.93		0.29	-0.21	402.01	
76241	K				44.69		2.0124		5.604				129096.95
		2.710	1.67	4.17		11331.94		11128.10		0.32	-0.23	11128.19	
76242	K				44.79		2.0119		5.633				140225.14
		2.128	-0.03	-0.27		12251.48		12031.09		0.24	-0.18	12031.15	
76243	K				44.87		2.0102		5.654				152256.29
		10.635	0.25	7.12		13181.55		12944.45		1.14	-0.70	12944.89	

77 B RAPPUKALLIO-SEINÄJOKI 1988.45

76243	K				44.87		2.0102		5.654				152256.29
		1.960	0.00	1.12		665.24		653.27		0.23	-0.17	653.33	
76244	K				44.94		2.0108		5.674				152909.63
		2.732	0.19	3.34		3718.64		3651.75		0.33	-0.23	3651.85	
76245	M				45.04		2.0118		5.702				156561.48
		3.138	0.12	-1.96		1805.19		1772.72		0.37	-0.26	1772.83	
76246	K				45.16		2.0133		5.734				158334.30

1	2	3	4	5	6	7	8	9	10	11	12	13	14
76246	K				45.16		2.0133		5.734				158334.30
		3.090	0.59	-0.52		4866.20		4778.68		0.37	-0.26	4778.79	
76247	K				45.27		2.0135		5.766				163113.09
		2.553	-0.40	2.70		-3941.44		-3870.55		0.31	-0.22	-3870.46	
76248	K				45.37		2.0148		5.793				159242.63
		2.269	-1.17	-0.03		-12643.84		-12416.48		0.25	-0.19	-12416.42	
AP0704	P				45.44		2.0203		5.815				146826.22
		0.876	0.05	1.00		-425.82		-418.16		0.13	-0.07	-418.10	
88101	K				45.48		2.0222		5.826				146408.11
		0.958	0.09	0.54		3602.42		3537.66		0.12	-0.08	3537.70	
76249	K				45.52		2.0225		5.836				149945.80
		1.293	-0.04	0.51		-985.39		-967.68		0.16	-0.11	-967.63	
76250	K				45.56		2.0233		5.850				148978.18
		1.724	0.07	1.46		-11672.05		-11462.25		0.21	-0.15	-11462.19	
76251	K				45.63		2.0267		5.868				137515.99
		1.884	0.10	2.18		-5354.25		-5258.03		0.24	-0.16	-5257.95	
76252	K				45.70		2.0312		5.889				132258.04
		2.726	-0.33	-0.08		-1412.57		-1387.20		0.35	-0.23	-1387.08	
76253	K				45.80		2.0357		5.919				130870.96
		2.489	-0.27	-3.83		-13471.83		-13229.86		0.31	-0.21	-13229.76	
76254	K				45.89		2.0417		5.946				117641.20
		2.824	0.25	-1.74		485.92		477.20		0.35	-0.24	477.31	
76255	K				45.99		2.0452		5.977				118118.51
		1.998	-0.08	-0.17		-6054.06		-5945.37		0.24	-0.17	-5945.30	
76256	K				46.07		2.0491		5.998				112173.20
		2.214	0.00	-0.74		-6657.52		-6538.02		0.28	-0.19	-6537.93	
76257	K				46.15		2.0521		6.022				105635.27
		3.332	-0.16	0.52		-10634.81		-10443.95		0.41	-0.28	-10443.82	
76258	K				46.27		2.0571		6.057				95191.45
		3.320	0.46	0.84		8809.97		8651.89		0.41	-0.28	8652.02	
76259	K				46.39		2.0581		6.093				103843.47
		3.345	0.37	-0.40		-134.34		-131.93		0.44	-0.28	-131.77	
76260	K				46.51		2.0609		6.130				103711.70
		1.404	-0.42	-1.17		-4378.88		-4300.34		0.18	-0.12	-4300.28	
76261	K				46.56		2.0625		6.146				99411.42
		3.154	-0.32	0.56		-4426.91		-4347.51		0.39	-0.27	-4347.39	
76262	M				46.68		2.0665		6.180				95064.04
		2.823	-0.20	-0.09		-1424.11		-1398.57		0.34	-0.24	-1398.47	
76263	K				46.78		2.0682		6.209				93665.57
		1.474	-0.11	0.64		-1345.91		-1321.78		0.19	-0.12	-1321.71	
88204	K				46.84		2.0693		6.225				92343.85
		1.954	-0.03	0.83		-1433.17		-1407.48		0.24	-0.16	-1407.40	
76264	K				46.91		2.0707		6.246				90936.45
		1.410	0.05	0.52		914.78		898.38		0.17	-0.12	898.43	
88202	M				46.96		2.0709		6.261				91834.88
		4.188	-0.44	0.07		-5218.71		-5125.16		0.54	-0.35	-5124.97	
88203	K				47.12		2.0740		6.308				86709.91
		1.086	-0.20	-0.88		-2900.83		-2848.84		0.14	-0.09	-2848.79	
76266	K				47.16		2.0751		6.320				83861.12
		2.155	0.17	0.68		-5327.78		-5232.28		0.28	-0.18	-5232.18	
76267	K				47.24		2.0775		6.344				78628.93
		2.749	-0.05	-2.23		-1591.77		-1563.24		0.36	-0.23	-1563.11	
76268	K				47.34		2.0783		6.375				77065.82
		1.943	0.01	0.71		-10695.60		-10503.93		0.25	-0.16	-10503.84	
76269	K				47.41		2.0798		6.397				66561.98
		2.011	-0.21	2.67		-3574.64		-3510.59		0.28	-0.17	-3510.48	
76270	K				47.47		2.0799		6.422				63051.50
		71.076	-1.91	7.05		-90837.87		-89207.67		8.87	-5.99	-89204.79	

78 A LIEKSA-SAVIJÄRVI 1994.39

92107	K				49.71		2.1395		3.471				97174.39
		0.149	0.01	-0.23		-1351.88		-1327.73		-0.01	0.11	-1327.63	
92106	K				49.71		2.1392		3.470				95846.75
		0.288	-0.12	-0.72		7459.95		7326.70		0.02	0.01	7326.73	
AP0112	M				49.72		2.1377		3.472				103173.48

1	2	3	4	5	6	7	8	9	10	11	12	13	14
AP0112	M				49.72		2.1377		3.472				103173.48
		1.197	-0.11	-1.71		-3312.14		-3252.97		0.06	0.03	-3252.88	
662241	K				49.74		2.1387		3.484				99920.60
		1.564	0.19	-0.13		6809.24		6687.61		0.04	0.04	6687.69	
92108	M				49.79		2.1385		3.492				106608.29
		1.093	-0.11	-0.56		1124.16		1104.08		0.05	0.03	1104.16	
662242	M				49.82		2.1396		3.500				107712.46
		1.410	-0.12	-0.99		4942.08		4853.82		0.09	0.04	4853.95	
662243	M				49.88		2.1398		3.516				112566.40
		1.337	-0.27	-0.02		15549.46		15271.73		0.02	0.03	15271.78	
AP0402	M				49.91		2.1375		3.519				127838.18
		0.792	0.17	-0.92		9708.08		9534.67		0.01	0.02	9534.70	
662244	M				49.93		2.1368		3.521				137372.88
		1.855	-0.21	-0.64		20085.81		19727.00		0.03	0.05	19727.08	
662245	K				49.98		2.1353		3.526				157099.96
		1.869	0.21	0.97		-15145.47		-14874.94		0.04	0.05	-14874.85	
92109	K				50.03		2.1401		3.533				142225.11
		1.134	0.09	1.09		11354.09		11151.30		0.02	0.03	11151.35	
94101	K				50.07		2.1387		3.538				153376.46
		1.267	-0.01	1.05		-33117.43		-32526.04		0.04	0.03	-32525.97	
662247	M				50.10		2.1461		3.545				120850.50
		3.236	0.04	-2.07		-3303.52		-3244.55		0.19	0.08	-3244.28	
662250	S				50.20		2.1484		3.579				117606.21
		1.821	0.09	-0.15		4093.41		4020.33		0.12	0.05	4020.50	
662251	K				50.26		2.1488		3.600				121626.71
		1.949	0.00	0.60		18163.28		17839.02		0.12	0.05	17839.19	
92110	M				50.32		2.1467		3.621				139465.91
		2.230	0.06	2.10		-7562.43		-7427.42		0.14	0.06	-7427.22	
92111	K				50.40		2.1494		3.645				132038.67
		2.019	-0.01	-0.22		-9433.35		-9264.97		0.11	0.05	-9264.81	
92113	M				50.45		2.1518		3.665				122773.88
		1.250	-0.03	-1.46		125.50		123.26		0.07	0.03	123.36	
662255	M				50.49		2.1522		3.679				122897.23
		1.538	-0.30	-0.48		2908.87		2856.95		0.08	0.04	2857.07	
92112	M				50.53		2.1523		3.693				125754.30
		2.525	-0.11	-1.67		2102.45		2064.92		0.15	0.06	2065.13	
92114	M				50.60		2.1535		3.719				127819.43
		2.022	0.01	-0.58		4798.78		4713.15		0.12	0.05	4713.32	
662258	K				50.65		2.1537		3.741				132532.75
		2.051	0.12	-0.02		10402.68		10217.03		0.12	0.05	10217.20	
662259	K				50.71		2.1529		3.762				142749.95
		2.198	0.71	0.61		-2850.92		-2800.05		0.13	0.06	-2799.86	
662260	M				50.78		2.1554		3.785				139950.08
		1.924	0.00	-1.08		11227.91		11027.54		0.12	0.05	11027.71	
662261	M				50.83		2.1533		3.806				150977.79
		1.768	0.09	1.50		23094.97		22682.75		0.10	0.05	22682.90	
92115	M				50.88		2.1488		3.825				173660.69
		1.312	-0.29	-1.03		-20690.15		-20320.85		0.07	0.03	-20320.75	
92116	K				50.91		2.1530		3.838				153339.94
		1.449	0.12	0.12		10409.67		10223.88		0.02	0.04	10223.94	
AP1101	M				50.95		2.1515		3.842				163563.88
		0.498	-0.03	0.11		12431.58		12209.68		0.01	0.01	12209.70	
92117	K				50.96		2.1492		3.844				175773.58
		1.309	0.01	-0.95		3368.43		3308.31		0.06	0.03	3308.40	
94102	K				50.99		2.1486		3.855				179081.99
		0.120	0.04	-0.11		-3535.15		-3472.04		0.01	0.00	-3472.03	
94109	K				51.00		2.1493		3.856				175609.95
		45.174	0.24	-7.59		79857.95		78432.16		2.15	1.26	78435.57	

78 B SAVIJÄRVI-TELJO 1994.62

94109	K				51.00		2.1493		3.856				175609.95
		0.581	-0.08	-0.35		-9510.73		-9340.96		0.03	0.01	-9340.92	
662264	M				51.02		2.1512		3.861				166269.03
		1.010	-0.33	0.06		-25971.59		-25508.10		0.04	0.03	-25508.03	
94110	S				51.05		2.1564		3.869				140761.01

1	2	3	4	5	6	7	8	9	10	11	12	13	14
94110	S				51.05		2.1564		3.869				140761.01
		0.956	0.05	-0.29		11890.32		11678.14		0.02	0.02	11678.18	
662265	M				51.09		2.1537		3.873				152439.18
		1.261	-0.25	0.00		-10661.14		-10470.90		0.03	0.03	-10470.84	
93224	M				51.13		2.1564		3.879				141968.35
		1.368	-0.08	-1.20		-2005.95		-1970.16		0.06	0.04	-1970.06	
662267	M				51.18		2.1574		3.890				139998.28
		1.426	-0.02	-1.00		-8162.00		-8016.37		0.07	0.04	-8016.26	
94112	S				51.22		2.1592		3.903				131982.03
		0.669	0.28	-1.00		25233.31		24783.06		0.04	0.02	24783.12	
662268	M				51.25		2.1540		3.910				156765.15
		2.043	-0.07	-1.51		16355.19		16063.29		0.08	0.05	16063.42	
662269	M				51.32		2.1517		3.925				172828.57
		1.155	0.07	-0.33		-2435.57		-2392.11		0.06	0.03	-2392.02	
93223	M				51.35		2.1524		3.936				170436.56
		1.124	-0.04	-0.56		15171.11		14900.32		0.04	0.03	14900.39	
662270	M				51.39		2.1497		3.943				185336.95
		0.870	-0.09	0.40		-4834.15		-4747.86		0.04	0.02	-4747.80	
94111	K				51.42		2.1509		3.950				180589.15
		0.853	0.14	-1.06		60.31		59.24		0.04	0.02	59.30	
93222	K				51.45		2.1515		3.957				180648.45
		1.212	-0.26	-1.01		-23667.26		-23244.89		0.00	0.03	-23244.86	
94201	K				51.49		2.1567		3.958				157403.58
		14.528	-0.68	-7.85		-18538.15		-18207.29		0.55	0.37	-18206.37	

78 C TELJO-LENTUANKOSKI 1994.42

94201	K				51.49		2.1567		3.958				157403.58
		0.026	0.00	0.10		-254.95		-250.40		0.00	0.00	-250.40	
94202	K				51.49		2.1568		3.958				157153.18
		1.073	0.22	0.09		4348.76		4271.16		0.02	0.03	4271.21	
93221	M				51.52		2.1568		3.962				161424.39
		1.983	0.61	-0.53		12645.58		12419.94		0.08	0.05	12420.07	
662273	M				51.58		2.1555		3.977				173844.46
		2.147	0.56	-1.10		18786.90		18451.63		0.11	0.06	18451.80	
93220	M				51.65		2.1531		3.997				192296.26
		2.118	0.48	-0.08		6864.93		6742.41		0.09	0.05	6742.55	
662275	M				51.72		2.1532		4.013				199038.81
		2.010	0.37	-0.35		8130.45		7985.34		0.07	0.05	7985.46	
662276	M				51.79		2.1518		4.024				207024.27
		1.917	0.66	-1.04		6921.02		6797.49		0.09	0.05	6797.63	
662277	M				51.85		2.1512		4.040				213821.90
		2.043	-0.08	-0.87		-3571.03		-3507.29		0.04	0.05	-3507.20	
662278	M				51.91		2.1539		4.047				210314.70
		1.886	-0.48	1.37		-6706.31		-6586.64		0.07	0.05	-6586.52	
662279	M				51.97		2.1564		4.060				203728.17
		2.022	1.10	-1.00		12572.60		12348.27		0.10	0.05	12348.42	
662280	M				52.03		2.1564		4.079				216076.59
		2.246	0.77	0.78		22178.12		21782.37		0.10	0.06	21782.53	
93219	K				52.10		2.1547		4.096				237859.12
		1.936	0.11	0.32		-2564.07		-2518.31		0.10	0.05	-2518.16	
662282	M				52.16		2.1544		4.114				235340.96
		2.024	-0.21	-0.12		2210.98		2171.52		0.11	0.05	2171.68	
662283	M				52.21		2.1534		4.134				237512.63
		0.814	-0.03	0.22		-2299.59		-2258.55		0.04	0.02	-2258.49	
93218	M				52.23		2.1542		4.142				235254.14
		1.746	0.64	-2.32		10136.51		9955.61		0.09	0.04	9955.74	
662810	M				52.27		2.1526		4.159				245209.89
		2.077	-0.25	1.23		-2368.18		-2325.92		0.12	0.05	-2325.75	
662809	K				52.31		2.1535		4.180				242884.14
		1.763	-1.13	-0.65		-33002.15		-32413.29		0.10	0.05	-32413.14	
662808	M				52.35		2.1607		4.197				210471.01
		2.144	0.09	-0.86		6100.00		5991.18		0.09	0.05	5991.32	
93217	K				52.41		2.1604		4.214				216462.32
		0.848	-0.08	0.40		-1664.21		-1634.52		0.04	0.02	-1634.46	
662807	M				52.43		2.1612		4.221				214827.87

1	2	3	4	5	6	7	8	9	10	11	12	13	14
662807	M				52.43		2.1612		4.221				214827.87
		1.444	-0.08	-0.86		2581.82		2535.76		0.07	0.04	2535.87	
93216	K				52.48		2.1619		4.233				217363.74
		0.948	-0.36	0.02		-7371.36		-7239.88		0.05	0.02	-7239.81	
662806	M				52.51		2.1641		4.242				210123.93
		2.189	-0.58	-0.86		-11678.39		-11470.11		0.12	0.06	-11469.93	
662805	M				52.57		2.1661		4.264				198654.00
		1.726	-0.21	-0.37		-5927.27		-5821.57		0.09	0.04	-5821.44	
662804	K				52.62		2.1669		4.279				192832.56
		1.514	0.30	0.06		3927.91		3857.86		0.08	0.04	3857.98	
93215	M				52.66		2.1672		4.294				196690.54
		1.198	-0.35	0.88		-8773.42		-8616.98		0.07	0.03	-8616.88	
662803	M				52.69		2.1698		4.307				188073.66
		2.158	0.15	-1.27		-632.87		-621.58		0.12	0.06	-621.40	
662802	K				52.74		2.1713		4.329				187452.26
		2.094	-0.14	0.34		-2870.22		-2819.05		0.11	0.05	-2818.89	
662801	K				52.80		2.1732		4.349				184633.37
		1.788	-0.42	1.84		-10471.86		-10285.19		0.08	0.05	-10285.06	
652411	M				52.85		2.1758		4.363				174348.32
		1.554	0.12	1.60		-2109.22		-2071.62		0.00	0.04	-2071.58	
652412	M				52.90		2.1764		4.364				172276.74
		1.582	0.00	1.03		-2237.53		-2197.65		0.00	0.04	-2197.61	
93225	S				52.95		2.1767		4.363				170079.13
		1.714	-0.14	-0.67		-363.76		-357.28		-0.07	0.04	-357.31	
KUHMO8	M				52.95		2.1763		4.351				169721.82
		1.453	-0.43	0.14		-8544.40		-8392.11		-0.09	0.04	-8392.16	
93226	M				52.93		2.1776		4.335				161329.66
		1.881	0.27	1.52		7525.79		7391.67		-0.01	0.05	7391.71	
652415	M				52.97		2.1772		4.333				168721.37
		1.287	1.44	1.34		35759.59		35122.14		0.02	0.03	35122.19	
93227	K				53.02		2.1711		4.337				203843.55
		1.310	-0.28	-0.01		-6764.89		-6644.29		0.00	0.03	-6644.26	
93228	K				53.05		2.1734		4.336				197199.31
		1.489	-0.20	0.62		-2531.05		-2485.94		-0.06	0.04	-2485.96	
93229	M				53.05		2.1743		4.326				194713.34
		1.775	-1.40	1.85		-27284.71		-26798.44		0.04	0.05	-26798.35	
93230	K				53.11		2.1811		4.333				167914.98
		1.576	0.87	1.17		30672.27		30125.64		0.00	0.04	30125.68	
94208	K				53.15		2.1757		4.332				198040.66
		0.010	-0.01	0.03		-280.12		-275.13		0.00	0.00	-275.13	
93231	K				53.15		2.1758		4.332				197765.53
		63.513	1.90	3.99		41091.66		40358.24		2.08	1.62	40361.94	

78 D LENTUANKOSKI-VARAJOKI 1994.61

93231	K				53.15		2.1758		4.332				197765.53
		1.568	-1.26	0.98		-23792.77		-23368.75		0.02	0.04	-23368.69	
93232	M				53.20		2.1807		4.336				174396.84
		1.660	-0.03	1.03		683.97		671.78		0.01	0.04	671.83	
652420	M				53.24		2.1801		4.338				175068.67
		1.958	0.95	-0.09		21571.64		21187.22		-0.04	0.05	21187.23	
94209	K				53.27		2.1788		4.331				196255.90
		5.186	-0.34	1.92		-1537.17		-1509.76		-0.01	0.13	-1509.64	

78 E VARAJOKI-SUMSA 1994.47

94209	K				53.27		2.1788		4.331				196255.90
		0.008	0.00	-0.12		40.26		39.55		0.00	0.00	39.55	
94203	K				53.27		2.1788		4.331				196295.45
		2.170	-0.44	-2.68		-14309.91		-14054.90		-0.06	0.06	-14054.90	
94204	K				53.30		2.1812		4.319				182240.55
		2.026	-0.60	-0.65		-13781.38		-13535.84		-0.04	0.05	-13535.83	
652423	M				53.33		2.1848		4.311				168704.72
		1.976	0.30	-1.52		4386.45		4308.30		0.00	0.05	4308.35	
652424	M				53.39		2.1853		4.312				173013.06

1	2	3	4	5	6	7	8	9	10	11	12	13	14
652424	M				53.39		2.1853		4.312				173013.06
		2.148	0.76	-0.48		16609.27		16313.35		0.09	0.06	16313.50	
94205	K				53.46		2.1815		4.329				189326.56
		2.010	-0.13	0.17		-8756.21		-8600.20		0.04	0.05	-8600.11	
652426	M				53.52		2.1838		4.337				180726.45
		0.026	-0.02	-0.37		-993.03		-975.34		0.00	0.00	-975.34	
94207	K				53.52		2.1841		4.337				179751.11
		10.364	-0.13	-5.65		-16804.56		-16505.09		0.03	0.27	-16504.79	

78 F SUMSA-SANGINKANGAS 1994.67

94207	K				53.52		2.1841		4.337				179751.11
		0.006	0.02	0.32		687.53		675.28		0.00	0.00	675.28	
94206	K				53.52		2.1839		4.337				180426.39
		1.663	-0.28	-1.29		-6362.56		-6249.21		0.01	0.04	-6249.16	
94210	M				53.57		2.1860		4.339				174177.23
		1.576	-0.05	0.67		1001.40		983.56		0.03	0.04	983.63	
94211	K				53.61		2.1862		4.345				175160.87
		1.552	0.25	0.46		12320.42		12100.94		0.04	0.04	12101.02	
94212	K				53.67		2.1844		4.352				187261.88
		2.704	1.18	-1.15		15656.61		15377.67		0.06	0.07	15377.80	
94213	M				53.75		2.1831		4.362				202639.69
		2.072	-0.09	0.34		2556.09		2510.55		0.06	0.05	2510.66	
94214	K				53.82		2.1838		4.373				205150.35
		1.960	-1.14	-0.88		-27563.33		-27072.34		0.05	0.05	-27072.24	
94215	M				53.88		2.1903		4.382				178078.11
		1.985	0.17	-1.47		6876.46		6754.01		0.07	0.05	6754.13	
94216	M				53.94		2.1903		4.395				184832.25
		2.130	0.09	0.01		-377.57		-370.85		0.11	0.05	-370.69	
AP0208	M				53.99		2.1913		4.415				184461.56
		0.008	0.01	-0.23		268.55		263.76		0.00	0.00	263.76	
94217	M				53.99		2.1913		4.415				184725.32
		1.672	0.12	0.71		1710.59		1680.13		0.08	0.04	1680.25	
AP0304	K				54.02		2.1922		4.431				186405.57
		0.006	0.00	-0.02		81.21		79.77		0.00	0.00	79.77	
94218	K				54.02		2.1922		4.431				186485.34
		1.600	0.24	0.93		682.16		670.01		0.07	0.04	670.12	
94219	K				54.07		2.1943		4.445				187155.46
		1.806	-0.07	0.14		-12.44		-12.22		0.07	0.05	-12.10	
652437	M				54.13		2.1959		4.459				187143.36
		2.051	0.78	-0.58		16680.06		16383.07		0.09	0.05	16383.21	
652438	K				54.20		2.1940		4.476				203526.57
		0.970	-0.01	-0.67		-12828.75		-12600.35		0.05	0.02	-12600.28	
94124	K				54.23		2.1975		4.486				190926.30
		0.922	0.01	0.00		-11401.58		-11198.62		0.05	0.02	-11198.55	
652439	M				54.25		2.2002		4.495				179727.75
		0.899	-0.17	-0.53		-1387.55		-1362.85		0.05	0.02	-1362.78	
94125	M				54.27		2.2010		4.505				178364.98
		1.122	0.01	-0.58		4772.70		4687.75		0.06	0.03	4687.84	
652440	M				54.30		2.2009		4.517				183052.82
		0.971	-0.10	0.92		7016.18		6891.30		0.05	0.02	6891.37	
94126	K				54.33		2.2009		4.527				189944.20
		1.120	-0.03	-0.53		6723.67		6603.99		0.06	0.03	6604.08	
652441	M				54.37		2.2012		4.538				196548.28
		0.990	-0.26	1.20		20849.08		20477.96		0.05	0.03	20478.04	
94127	M				54.40		2.1980		4.547				217026.31
		0.918	-0.05	0.73		3252.87		3194.97		0.05	0.02	3195.04	
94128	M				54.43		2.1980		4.555				220221.36
		1.124	0.17	-0.50		-19431.24		-19085.39		0.04	0.03	-19085.32	
94123	K				54.47		2.2038		4.563				201136.03
		1.274	-0.11	-0.33		1754.60		1723.38		0.03	0.03	1723.44	
652443	K				54.51		2.2061		4.570				202859.48
		0.601	-0.04	0.79		3702.16		3636.29		0.02	0.02	3636.33	
94122	K				54.53		2.2063		4.573				206495.80
		1.247	0.02	0.65		-2699.30		-2651.28		0.05	0.03	-2651.20	
652444	M				54.57		2.2079		4.582				203844.61

1	2	3	4	5	6	7	8	9	10	11	12	13	14
652444	M				54.57		2.2079		4.582				203844.61
		1.961	-0.28	0.83		26329.01		25860.54		0.08	0.05	25860.67	
652445	M				54.63		2.2062		4.596				229705.29
		1.381	0.13	1.43		-6411.11		-6297.04		0.07	0.04	-6296.93	
94121	M				54.67		2.2096		4.610				223408.35
		1.002	-0.11	1.11		-11502.07		-11297.46		0.04	0.03	-11297.39	
94120	K				54.71		2.2128		4.617				212110.96
		1.020	-0.11	1.16		10427.43		10241.95		0.04	0.03	10242.02	
652447	M				54.74		2.2114		4.623				222352.97
		1.086	-0.02	-0.19		923.15		906.72		0.06	0.03	906.81	
94119	M				54.78		2.2117		4.634				223259.78
		0.898	0.12	0.02		-8801.99		-8645.43		0.04	0.02	-8645.37	
652448	M				54.80		2.2143		4.641				214614.41
		1.332	0.00	-0.10		-4308.02		-4231.40		0.03	0.03	-4231.34	
94118	M				54.84		2.2172		4.647				210383.08
		0.929	0.03	0.71		-3025.76		-2971.96		0.02	0.02	-2971.92	
652449	M				54.88		2.2187		4.650				207411.16
		1.481	-0.03	0.93		-1296.54		-1273.49		0.05	0.04	-1273.40	
94117	M				54.93		2.2200		4.658				206137.75
		0.822	0.06	0.15		-6429.00		-6314.70		0.04	0.02	-6314.64	
94116	M				54.95		2.2211		4.666				199823.12
		1.564	-0.07	1.37		7448.46		7316.03		0.07	0.04	7316.14	
652451	M				55.00		2.2203		4.679				207139.26
		0.837	-0.12	0.57		-8202.71		-8056.87		0.03	0.02	-8056.82	
94115	S				55.03		2.2225		4.685				199082.44
		0.871	0.13	1.08		8694.08		8539.51		0.04	0.02	8539.57	
652452	M				55.06		2.2213		4.691				207622.01
		0.682	0.06	0.13		9040.66		8879.92		0.03	0.02	8879.97	
94114	M				55.09		2.2199		4.696				216501.98
		0.973	-0.07	0.09		18444.29		18116.31		0.03	0.02	18116.36	
652453	K				55.12		2.2160		4.703				234618.35
		0.984	-0.15	0.19		-12974.88		-12744.15		0.03	0.03	-12744.09	
94113	M				55.15		2.2181		4.709				221874.25
		0.910	-0.08	-0.43		-33951.88		-33348.28		0.02	0.02	-33348.24	
652454	M				55.18		2.2252		4.713				188526.02
		0.765	-0.03	0.27		2190.06		2151.14		0.02	0.02	2151.18	
93329	K				55.21		2.2255		4.716				190677.19
		0.846	-0.09	0.15		-1060.04		-1041.20		0.03	0.02	-1041.15	
652455	M				55.23		2.2260		4.722				189636.05
		1.698	0.18	0.80		29304.99		28784.04		0.05	0.04	28784.13	
93328	M				55.29		2.2205		4.731				218420.18
		1.168	-0.15	0.61		-9223.85		-9059.85		0.05	0.03	-9059.77	
652456	M				55.33		2.2208		4.740				209360.41
		1.487	0.62	0.71		12115.83		11900.40		0.07	0.04	11900.51	
652457	K				55.35		2.2170		4.753				221260.92
		1.306	0.08	0.26		6349.35		6236.43		0.05	0.03	6236.51	
93327	M				55.36		2.2155		4.763				227497.43
		1.171	0.09	-0.22		-6823.34		-6701.99		0.05	0.03	-6701.91	
93326	M				55.37		2.2159		4.772				220795.52
		1.521	0.05	-0.41		11611.03		11404.51		0.07	0.04	11404.62	
652459	M				55.39		2.2115		4.785				232200.14
		2.000	-0.10	0.61		-24770.07		-24329.49		0.08	0.05	-24329.36	
652460	M				55.40		2.2153		4.800				207870.78
		1.432	-0.18	-0.56		-7789.67		-7651.14		0.06	0.04	-7651.04	
93325	M				55.41		2.2164		4.811				200219.74
		1.528	-0.05	0.49		-3228.76		-3171.34		0.06	0.04	-3171.24	
93324	P				55.41		2.2162		4.821				197048.50
		1.065	-0.01	-0.66		-457.63		-449.49		0.04	0.03	-449.42	
652462	M				55.41		2.2160		4.829				196599.08
		0.778	0.13	-0.31		2841.12		2790.60		0.04	0.02	2790.66	
93323	M				55.43		2.2156		4.836				199389.73
		1.560	-0.06	0.48		-8884.13		-8726.14		0.07	0.04	-8726.03	
93322	M				55.45		2.2175		4.849				190663.71
		1.724	0.28	-1.33		865.74		850.35		0.08	0.04	850.47	
93321	S				55.48		2.2176		4.864				191514.18
		1.697	0.37	-0.11		2593.62		2547.50		0.07	0.04	2547.61	
652465	M				55.53		2.2187		4.877				194061.79

1	2	3	4	5	6	7	8	9	10	11	12	13	14
652465	M				55.53		2.2187		4.877				194061.79
		1.143	-0.23	1.74		-2565.81		-2520.19		0.05	0.03	-2520.11	
93320	M				55.56		2.2199		4.886				191541.68
		1.010	0.01	0.01		5051.16		4961.35		0.04	0.03	4961.42	
652466	M				55.58		2.2204		4.894				196503.10
		1.523	-0.12	-0.12		-2041.80		-2005.50		0.03	0.04	-2005.43	
94303	K				55.63		2.2202		4.900				194497.67
		0.007	-0.02	-0.14		-1726.73		-1696.03		0.00	0.00	-1696.03	
93319	K				55.63		2.2206		4.900				192801.64
		79.111	0.93	10.43		13282.23		13045.47		3.03	2.00	13050.50	

78 G SANGINKANGAS-ÄMMÄNSAARI 1994.43

93319	K				55.63		2.2206		4.900				192801.64
		0.576	0.10	0.37		1004.21		986.36		0.00	0.01	986.37	
652467	M				55.64		2.2204		4.900				193788.02
		0.880	0.40	-0.58		17059.03		16755.70		0.01	0.02	16755.73	
93318	M				55.67		2.2173		4.901				210543.75
		1.368	0.35	-0.10		24417.95		23983.68		0.03	0.04	23983.75	
652468	M				55.72		2.2128		4.907				234527.50
		1.458	-0.38	0.26		-27563.47		-27073.28		0.03	0.04	-27073.21	
93317	K				55.76		2.2189		4.913				207454.30
		1.532	-0.08	0.41		-2282.11		-2241.53		0.06	0.04	-2241.43	
652469	M				55.81		2.2208		4.923				205212.87
		0.532	-0.23	0.23		-6334.47		-6221.85		0.02	0.01	-6221.82	
93316	S				55.82		2.2223		4.928				198991.05
		1.930	0.22	1.27		11591.08		11385.01		0.08	0.05	11385.14	
652470	M				55.84		2.2208		4.942				210376.19
		0.992	0.11	0.41		6185.14		6075.17		0.01	0.03	6075.21	
93315	K				55.86		2.2198		4.943				216451.41
		1.216	-0.01	-0.56		-5077.63		-4987.35		0.02	0.03	-4987.30	
93314	M				55.83		2.2212		4.946				211464.11
		1.636	0.04	0.36		5818.71		5715.26		0.05	0.04	5715.35	
652471	M				55.83		2.2217		4.956				217179.45
		1.754	-0.08	0.60		-4273.75		-4197.78		0.08	0.04	-4197.66	
652472	M				55.85		2.2224		4.969				212981.80
		0.830	-0.25	-0.26		-13721.77		-13477.84		0.04	0.02	-13477.78	
93313	S				55.87		2.2242		4.976				199504.02
		1.094	0.68	1.24		22407.15		22008.78		0.05	0.03	22008.86	
652473	M				55.89		2.2184		4.985				221512.89
		1.236	0.03	-0.31		7924.91		7783.98		0.05	0.03	7784.06	
93312	K				55.91		2.2164		4.993				229296.94
		1.584	-0.36	-2.31		-9306.26		-9140.77		0.06	0.04	-9140.67	
93311	M				55.92		2.2180		5.004				220156.28
		1.148	0.30	-0.09		11436.83		11233.45		0.05	0.03	11233.53	
93310	K				55.94		2.2160		5.013				231389.80
		1.028	0.14	-0.88		15369.66		15096.30		0.04	0.03	15096.37	
93309	K				55.95		2.2131		5.021				246486.16
		1.172	-0.17	-1.66		-6386.46		-6272.86		0.04	0.03	-6272.79	
93308	K				55.95		2.2138		5.029				240213.37
		1.067	-0.05	-0.90		-1828.19		-1795.67		0.04	0.03	-1795.60	
93307	K				55.95		2.2141		5.037				238417.77
		0.654	-0.19	-0.55		-14755.28		-14492.86		0.02	0.02	-14492.82	
93306	K				55.95		2.2168		5.041				223924.95
		1.855	-0.27	0.03		-15830.32		-15548.82		0.00	0.05	-15548.77	
652478	M				55.90		2.2185		5.041				208376.17
		1.450	0.66	1.40		8731.30		8576.04		0.06	0.04	8576.14	
93305	K				55.91		2.2163		5.052				216952.31
		1.672	-0.98	-0.33		-18022.44		-17701.96		0.07	0.04	-17701.85	
93304	K				55.92		2.2192		5.065				199250.47
		0.152	0.03	-0.09		184.49		181.21		0.00	0.00	181.21	
652480	M				55.92		2.2193		5.066				199431.69
		0.984	0.11	0.01		3855.96		3787.40		0.05	0.03	3787.48	
93303	S				55.94		2.2184		5.074				203219.16
		0.954	-0.22	-0.37		-2889.23		-2837.85		0.04	0.02	-2837.79	
652481	M				55.96		2.2185		5.081				200381.37

1	2	3	4	5	6	7	8	9	10	11	12	13	14
652481	M				55.96		2.2185		5.081				200381.37
		0.232	-0.23	-0.36		-2569.10		-2523.42		0.01	0.01	-2523.40	
93302	K				55.96		2.2191		5.083				197857.96
		0.012	0.00	-0.04		264.33		259.63		0.00	0.00	259.63	
49038	K				55.96		2.2190		5.083				198117.59
		30.998	-0.33	-2.80		5410.28		5314.15		1.01	0.80	5315.96	

79 A LAPUA-MÖKSY 1997.45

1154	K				48.42		2.1090		6.595				49647.74
		0.011	0.00	-0.08		385.23		378.34		0.00	0.00	378.34	
97201	K				48.42		2.1090		6.596				50026.08
		1.713	0.11	-2.43		-16645.94		-16348.13		-0.04	0.61	-16347.56	
1153	M				48.35		2.1096		6.581				33678.52
		1.560	0.10	0.21		22300.59		21901.56		-0.04	-0.05	21901.47	
625150	K				48.32		2.1042		6.564				55579.99
		1.228	-0.13	-1.83		13405.17		13165.26		-0.02	-0.04	13165.20	
625151	K				48.34		2.1021		6.556				68745.17
		1.574	0.05	-0.67		-15636.61		-15356.78		-0.02	-0.06	-15356.86	
941321	M				48.37		2.1064		6.548				53388.32
		0.984	-0.04	1.97		10762.03		10569.44		-0.01	-0.03	10569.40	
941322	M				48.38		2.1044		6.543				63957.72
		1.236	0.05	0.21		-1198.18		-1176.74		-0.02	-0.04	-1176.80	
625153	K				48.40		2.1044		6.537				62780.92
		1.884	0.10	-0.18		-1831.36		-1798.59		-0.02	-0.07	-1798.68	
625154	M				48.44		2.1041		6.528				60982.23
		2.472	-0.13	1.08		-3264.55		-3206.12		-0.05	-0.09	-3206.26	
941323	M				48.46		2.1042		6.509				57775.99
		1.351	0.07	0.36		-2665.22		-2617.52		-0.04	-0.05	-2617.61	
625156	M				48.44		2.1016		6.491				55158.38
		0.876	0.04	0.35		3026.87		2972.69		-0.03	-0.03	2972.63	
941324	M				48.43		2.1005		6.480				58131.01
		1.161	-0.01	0.64		1775.74		1743.95		-0.04	-0.04	1743.87	
625157	M				48.42		2.0998		6.466				59874.87
		1.765	0.11	-0.52		-448.32		-440.30		-0.06	-0.06	-440.42	
625158	M				48.39		2.0979		6.442				59434.45
		1.549	-0.01	0.07		7140.34		7012.50		-0.05	-0.05	7012.40	
625159	K				48.38		2.0953		6.424				66446.84
		0.962	0.04	-0.87		9475.84		9306.17		-0.03	-0.03	9306.11	
941325	K				48.38		2.0933		6.414				75752.95
		1.153	0.02	-0.10		3089.24		3033.92		-0.03	-0.04	3033.85	
625160	K				48.39		2.0928		6.403				78786.80
		1.296	0.06	-0.98		7466.71		7333.01		-0.03	-0.05	7332.93	
941326	K				48.40		2.0911		6.392				86119.74
		1.014	0.12	0.46		5318.96		5223.70		-0.02	-0.04	5223.64	
941327	K				48.41		2.0898		6.383				91343.38
		1.083	0.03	-0.29		-109.88		-107.91		-0.02	-0.04	-107.97	
625162	K				48.42		2.0899		6.374				91235.41
		1.826	-0.32	1.43		-11749.93		-11539.50		-0.05	-0.06	-11539.61	
941328	M				48.43		2.0921		6.354				79695.79
		1.757	-0.12	0.56		9415.26		9246.65		-0.05	-0.06	9246.54	
625164	M				48.43		2.0902		6.335				88942.33
		0.697	-0.06	-0.54		2583.15		2536.89		-0.02	-0.02	2536.85	
941329	M				48.43		2.0897		6.326				91479.17
		1.318	0.09	-0.37		1814.41		1781.91		-0.04	-0.05	1781.82	
625165	M				48.44		2.0896		6.312				93260.99
		1.588	0.03	-0.63		1011.11		993.00		-0.05	-0.06	992.89	
941330	M				48.44		2.0893		6.293				94253.88
		1.187	0.00	0.18		1546.16		1518.47		-0.03	-0.04	1518.40	
625166	K				48.45		2.0890		6.281				95772.29
		1.004	0.16	0.69		-8402.40		-8251.91		-0.03	-0.04	-8251.98	
941331	M				48.45		2.0906		6.270				87520.30
		1.778	-0.09	-0.78		-10494.55		-10306.61		-0.05	-0.06	-10306.72	
721127	M				48.46		2.0935		6.251				77213.59
		3.802	-0.47	0.51		12895.15		12664.24		-0.11	-0.13	12664.00	
97205	M				48.48		2.0916		6.208				89877.58

1	2	3	4	5	6	7	8	9	10	11	12	13	14
97205	M				48.48		2.0916		6.208				89877.58
		1.938	0.38	0.17		29215.00		28691.72		-0.06	-0.07	28691.59	
97204	K				48.48		2.0862		6.184				118569.17
		1.249	-0.76	-0.21		10304.23		10119.64		-0.04	-0.04	10119.56	
97203	K				48.47		2.0849		6.168				128688.73
		1.996	0.56	-0.94		-17569.98		-17255.25		-0.05	-0.07	-17255.37	
97202	M				48.49		2.0897		6.148				111433.36
		1.302	0.02	0.82		1032.95		1014.45		-0.03	-0.05	1014.37	
572615	K				48.49		2.0894		6.134				112447.73
		1.241	-0.09	1.26		-4831.16		-4744.64		-0.03	-0.04	-4744.71	
721788	M				48.50		2.0908		6.121				107703.02
		0.985	0.03	-0.16		-193.34		-189.87		-0.01	-0.03	-189.91	
721789	M				48.52		2.0916		6.118				107513.10
		1.105	0.24	-1.53		6906.51		6782.82		-0.03	-0.04	6782.75	
572616	K				48.53		2.0905		6.109				114295.86
		1.816	-0.19	0.04		-5132.12		-5040.21		-0.05	-0.06	-5040.32	
721791	M				48.54		2.0920		6.090				109255.53
		1.004	-1.27	1.03		17060.75		16755.20		-0.03	-0.04	16755.13	
572617	K				48.54		2.0885		6.078				126010.67
		2.023	-0.15	-0.55		11551.26		11344.34		-0.06	-0.07	11344.21	
572618	K				48.54		2.0857		6.054				137354.87
		1.092	0.05	0.84		-4152.37		-4077.98		-0.03	-0.04	-4078.05	
721793	M				48.54		2.0863		6.041				133276.82
		2.329	0.82	-1.19		21847.39		21455.97		-0.07	-0.08	21455.82	
721794	M				48.53		2.0814		6.012				154732.64
		1.280	-0.04	-1.17		-2292.61		-2251.53		-0.03	-0.04	-2251.60	
572620	K				48.54		2.0820		5.999				152481.02
		1.346	-0.02	1.20		-16082.52		-15794.38		-0.04	-0.05	-15794.47	
572621	K				48.53		2.0851		5.983				136686.57
		1.211	0.09	-0.36		2773.83		2724.15		-0.03	-0.04	2724.08	
721795	M				48.54		2.0846		5.971				139410.63
		1.652	-0.02	-1.11		2363.60		2321.26		-0.05	-0.06	2321.15	
572622	K				48.54		2.0851		5.953				141731.79
		0.782	-0.24	0.02		18594.37		18261.22		-0.02	-0.03	18261.17	
721796	K				48.54		2.0815		5.945				159992.96
		1.340	0.12	-0.77		2702.69		2654.27		-0.04	-0.05	2654.18	
721797	K				48.54		2.0811		5.930				162647.14
		0.984	0.02	-1.13		7622.69		7486.09		-0.03	-0.03	7486.03	
721798	K				48.54		2.0801		5.919				170133.17
		1.288	-0.04	-1.88		-2273.41		-2232.67		-0.03	-0.05	-2232.75	
721799	S				48.55		2.0815		5.907				167900.42
		0.805	0.09	-0.54		10965.35		10768.86		-0.02	-0.03	10768.81	
721800	K				48.56		2.0797		5.899				178669.23
		0.851	-0.34	0.56		13470.34		13228.94		-0.02	-0.03	13228.89	
572625	K				48.57		2.0775		5.893				191898.12
		1.370	0.01	0.55		6624.12		6505.39		-0.04	-0.05	6505.30	
721801	M				48.55		2.0760		5.877				198403.44
		1.208	0.01	-0.06		2509.47		2464.49		-0.03	-0.04	2464.42	
721802	M				48.55		2.0763		5.864				200867.85
		1.798	-0.04	0.56		-11157.54		-10957.57		-0.05	-0.06	-10957.68	
572627	M				48.54		2.0794		5.845				189910.17
		0.845	-0.14	0.02		-5538.32		-5439.07		-0.03	-0.03	-5439.13	
721804	M				48.53		2.0804		5.835				184471.04
		1.975	0.17	0.78		-6299.56		-6186.68		-0.05	-0.07	-6186.80	
721805	M				48.53		2.0821		5.816				178284.23
		0.882	0.07	-0.51		130.52		128.18		-0.02	-0.03	128.13	
721806	M				48.54		2.0827		5.809				178412.36
		0.036	0.00	0.03		466.92		458.56		0.00	0.00	458.56	
97207	M				48.54		2.0826		5.809				178870.92
		77.562	-0.86	-5.78		131584.07		129227.24		-2.02	-2.04	129223.18	

79 B MÖKSY-HUOPANANKOSKI 1997.69

97207	M				48.54		2.0826		5.809				178870.92
		0.865	0.00	0.61		-1156.12		-1135.41		-0.02	-0.03	-1135.46	
721807	M				48.53		2.0837		5.799				177735.46

1	2	3	4	5	6	7	8	9	10	11	12	13	14
721807	M				48.53		2.0837		5.799				177735.46
		2.031	-0.18	2.02		-2014.37		-1978.28		-0.04	-0.07	-1978.39	
721808	M				48.54		2.0848		5.780				175757.07
		0.440	-0.06	1.16		-2585.57		-2539.25		-0.01	-0.02	-2539.28	
721809	M				48.55		2.0854		5.776				173217.78
		1.632	0.18	-0.91		-12155.31		-11937.57		-0.02	-0.06	-11937.65	
97206	K				48.57		2.0887		5.766				161280.15
		0.665	-0.01	0.36		-2559.77		-2513.92		-0.01	-0.02	-2513.95	
721811	S				48.58		2.0894		5.760				158766.18
		0.914	0.04	-0.82		1450.49		1424.51		-0.02	-0.03	1424.46	
721812	P				48.58		2.0893		5.751				160190.64
		1.044	-0.01	-0.42		5194.28		5101.24		-0.03	-0.04	5101.17	
572633	M				48.57		2.0884		5.739				165291.83
		1.436	0.03	-0.44		-6199.04		-6088.01		-0.03	-0.05	-6088.09	
721813	M				48.58		2.0904		5.725				159203.74
		0.713	-0.05	0.06		-4301.36		-4224.33		-0.02	-0.02	-4224.37	
572411	P				48.58		2.0916		5.718				154979.35
		0.824	0.07	-0.31		-2965.84		-2912.73		-0.02	-0.03	-2912.78	
721212	M				48.57		2.0921		5.710				152066.58
		0.983	0.00	0.26		9817.59		9641.76		-0.03	-0.03	9641.70	
572410	M				48.56		2.0895		5.699				161708.27
		0.994	-0.07	-0.60		5366.46		5270.34		-0.02	-0.03	5270.29	
721211	M				48.52		2.0873		5.690				166978.56
		1.178	0.04	0.34		10004.66		9825.44		-0.02	-0.04	9825.38	
721210	M				48.49		2.0838		5.680				176803.93
		0.788	0.08	-0.65		-2786.19		-2736.28		-0.02	-0.03	-2736.33	
572409	K				48.47		2.0835		5.671				174067.61
		1.196	-0.01	0.47		521.21		511.87		-0.03	-0.04	511.80	
721209	M				48.46		2.0829		5.658				174579.41
		0.896	-0.01	-1.11		2587.70		2541.33		-0.02	-0.03	2541.28	
572408	M				48.46		2.0820		5.648				177120.68
		1.041	0.00	-0.30		-6990.16		-6864.92		-0.02	-0.04	-6864.98	
721208	M				48.47		2.0832		5.640				170255.70
		1.777	0.01	-0.41		-10071.85		-9891.41		-0.02	-0.06	-9891.49	
97211	M				48.49		2.0853		5.632				160364.21
		1.558	-0.42	-0.18		9400.38		9231.97		-0.03	-0.05	9231.89	
97212	M				48.49		2.0833		5.617				169596.10
		1.805	0.07	-1.82		20635.21		20265.46		-0.04	-0.06	20265.36	
97213	M				48.48		2.0798		5.599				189861.45
		2.270	-0.04	0.63		8559.61		8406.22		-0.05	-0.08	8406.09	
97214	M				48.48		2.0785		5.576				198267.55
		2.194	-0.04	-0.56		21.30		20.92		-0.03	-0.08	20.81	
97215	K				48.51		2.0793		5.562				198288.36
		1.724	-0.18	0.21		-9606.00		-9433.88		-0.04	-0.06	-9433.98	
97216	K				48.51		2.0831		5.545				188854.39
		1.710	-0.10	0.85		-7437.52		-7304.28		-0.04	-0.06	-7304.38	
97217	M				48.51		2.0856		5.530				181550.00
		1.828	-0.09	0.65		-7274.15		-7143.85		-0.04	-0.06	-7143.95	
97218	M				48.51		2.0876		5.513				174406.05
		0.936	-0.01	0.94		-1844.67		-1811.62		-0.02	-0.03	-1811.67	
97219	K				48.50		2.0881		5.503				172594.38
		1.970	0.06	0.80		-6388.96		-6274.53		-0.05	-0.07	-6274.65	
97220	K				48.49		2.0883		5.484				166319.73
		1.678	-0.02	0.51		-2688.22		-2640.07		-0.03	-0.06	-2640.16	
97221	M				48.49		2.0893		5.469				163679.57
		1.346	-0.29	-0.14		16411.62		16117.66		-0.03	-0.05	16117.58	
741117	M				48.48		2.0865		5.456				179797.17
		1.814	0.00	0.43		-3136.08		-3079.91		-0.04	-0.06	-3080.01	
97222	K				48.47		2.0869		5.439				176717.14
		1.856	-0.22	-0.06		-20506.32		-20139.03		-0.03	-0.06	-20139.12	
97223	M				48.47		2.0911		5.424				156578.03
		1.669	-0.12	0.42		-23847.94		-23420.91		-0.02	-0.06	-23420.99	
97224	M				48.49		2.0960		5.414				133157.03
		1.740	-0.04	0.06		144.03		141.46		-0.03	-0.06	141.37	
97232	M				48.49		2.0960		5.400				133298.40
		1.442	0.12	0.25		14186.52		13932.51		-0.03	-0.05	13932.43	
97233	K				48.50		2.0935		5.389				147230.83

1	2	3	4	5	6	7	8	9	10	11	12	13	14
97233	K				48.50		2.0935		5.389				147230.83
		1.686	0.12	-0.51		16019.84		15732.95		-0.04	-0.06	15732.85	
97234	K				48.47		2.0900		5.371				162963.68
		1.639	0.51	0.31		-14685.86		-14422.85		-0.03	-0.06	-14422.94	
97235	M				48.47		2.0919		5.356				148540.74
		0.923	0.23	-0.07		-20171.72		-19810.52		-0.01	-0.03	-19810.56	
97231	M				48.48		2.0953		5.350				128730.19
		1.790	0.08	-0.21		-11119.70		-10920.63		-0.02	-0.06	-10920.71	
97M9615	M				48.50		2.0984		5.343				117809.48
		1.162	-0.02	0.27		-5438.38		-5341.03		-0.02	-0.04	-5341.09	
97230	M				48.51		2.1011		5.335				112468.39
		2.053	-0.03	-0.10		-1762.04		-1730.51		-0.04	-0.07	-1730.62	
97229	M				48.49		2.1031		5.316				110737.77
		1.675	-0.01	-1.15		14225.92		13971.32		-0.02	-0.06	13971.24	
97228	K				48.51		2.1019		5.309				124709.01
		1.616	0.15	-0.33		-14914.97		-14648.07		0.00	-0.06	-14648.13	
97227	M				48.54		2.1081		5.307				110060.89
		1.578	0.14	0.39		21826.85		21436.30		-0.01	-0.06	21436.23	
97226	K				48.57		2.1053		5.303				131497.13
		2.147	-0.10	0.84		-5154.33		-5062.10		-0.03	-0.08	-5062.21	
97225	K				48.58		2.1066		5.290				126434.92
		1.180	0.03	-0.08		-5980.13		-5873.13		0.02	-0.04	-5873.15	
2662	K				48.62		2.1083		5.297				120561.76
		64.406	-0.17	1.66		-59368.88		-58305.76		-1.15	-2.24	-58309.15	

79 C HUOPANANKOSKI-VIITASAARI 1997.42

2662	K				48.62		2.1083		5.297				120561.76
		0.052	0.00	0.02		-433.26		-425.51		0.00	0.00	-425.51	
601207	K				48.62		2.1084		5.297				120136.25
		1.332	0.29	-1.07		-11051.69		-10853.97		-0.03	-0.05	-10854.05	
741145	M				48.60		2.1106		5.284				109282.20
		1.090	-0.11	0.28		-4062.11		-3989.45		-0.03	-0.04	-3989.52	
97303	K				48.59		2.1120		5.274				105292.68
		0.625	0.02	-0.81		-3030.43		-2976.23		0.00	-0.02	-2976.25	
2663	M				48.60		2.1130		5.274				102316.43
		0.108	0.01	0.05		278.43		273.45		0.00	0.00	273.45	
601208	M				48.60		2.1131		5.274				102589.88
		1.140	0.03	0.29		-696.50		-684.04		-0.02	-0.04	-684.10	
741146	M				48.61		2.1146		5.268				101905.78
		0.309	0.03	-0.11		-345.74		-339.56		0.01	-0.01	-339.56	
HT10	K				48.62		2.1148		5.271				101566.22
		1.342	0.06	0.92		14299.83		14044.06		-0.02	-0.05	14043.99	
741147	K				48.62		2.1124		5.264				115610.21
		0.454	0.02	0.07		-6290.42		-6177.91		-0.01	-0.02	-6177.94	
2664	K				48.61		2.1134		5.259				109432.27
		0.865	-0.36	1.46		4515.56		4434.78		-0.02	-0.03	4434.73	
741148	M				48.61		2.1116		5.252				113866.99
		0.948	-0.24	0.89		3645.98		3580.76		-0.02	-0.03	3580.71	
741149	M				48.58		2.1096		5.242				117447.71
		0.841	-0.06	0.18		17250.17		16941.52		-0.02	-0.03	16941.47	
2665	K				48.57		2.1056		5.234				134389.18
		0.018	-0.02	0.02		1258.62		1236.10		0.00	0.00	1236.10	
601209	K				48.57		2.1053		5.234				135625.28
		0.746	-0.15	0.74		17169.90		16862.62		-0.01	-0.03	16862.58	
741150	M				48.57		2.1019		5.229				152487.87
		1.140	-0.10	-0.25		-4622.21		-4539.48		-0.01	-0.04	-4539.53	
2666	M				48.59		2.1033		5.226				147948.34
		1.176	0.03	1.24		-3860.75		-3791.65		-0.01	-0.04	-3791.70	
741151	M				48.61		2.1036		5.221				144156.63
		1.150	0.27	1.65		-38461.01		-37772.81		-0.01	-0.04	-37772.86	
2667	K				48.63		2.1090		5.218				106383.77
		0.055	0.01	-0.06		2538.65		2493.23		0.00	0.00	2493.23	
741152	K				48.64		2.1084		5.218				108877.00
		1.227	0.10	0.35		15722.46		15441.13		-0.02	-0.04	15441.07	
741153	M				48.64		2.1043		5.209				124318.06

1	2	3	4	5	6	7	8	9	10	11	12	13	14
741153	M				48.64		2.1043		5.209				124318.06
		1.404	0.09	0.34		4677.75		4594.04		-0.03	-0.05	4593.96	
2668	M				48.64		2.1031		5.199				128912.02
		1.050	-0.05	0.47		18750.75		18415.13		-0.03	-0.04	18415.06	
741154	K				48.61		2.0988		5.189				147327.08
		0.805	0.05	0.32		-14723.56		-14460.01		-0.02	-0.03	-14460.06	
741155	M				48.60		2.1011		5.181				132867.03
		0.872	-0.10	0.60		-21459.18		-21075.12		-0.02	-0.03	-21075.17	
2669	M				48.58		2.1045		5.172				111791.84
		0.015	0.00	0.05		23.00		22.59		0.00	0.00	22.59	
741156	M				48.58		2.1045		5.172				111814.43
		0.508	0.04	0.81		-8247.48		-8099.89		-0.01	-0.02	-8099.92	
97302	K				48.57		2.1058		5.167				103714.52
		0.672	0.04	-1.01		6029.65		5921.75		-0.01	-0.02	5921.72	
741157	K				48.57		2.1045		5.163				109636.23
		1.416	0.14	0.65		3897.85		3828.10		-0.02	-0.05	3828.03	
55105	M				48.55		2.1038		5.156				113464.26
		2.248	-0.12	-1.34		13247.10		13010.01		-0.04	1.15	13011.12	
97301	K				48.49		2.1020		5.140				126475.38
		0.012	0.00	-0.06		-741.57		-728.29		0.00	0.01	-728.28	
55106	K				48.49		2.1021		5.140				125747.10
		23.620	-0.08	6.69		5279.77		5185.33		-0.40	0.41	5185.34	

80 A HAAPAJÄRVI-LESKELÄ 1997.44

55138	K				51.25		2.1545		5.948				103809.73
		0.020	0.01	0.10		-214.32		-210.49		0.00	-0.12	-210.61	
90101	K				51.25		2.1545		5.949				103599.12
		0.371	0.04	-1.20		-3128.76		-3072.93		0.01	0.01	-3072.91	
90109	K				51.26		2.1547		5.952				100526.21
		1.806	-0.23	0.32		-3665.24		-3599.83		0.05	0.03	-3599.75	
55137	R				51.32		2.1541		5.971				96926.45
		1.628	0.01	-0.16		1736.30		1705.32		0.04	0.02	1705.38	
55136	M				51.37		2.1493		5.988				98631.83
		0.788	-0.12	1.08		-2332.11		-2290.48		0.02	0.01	-2290.45	
55135	S				51.40		2.1502		5.996				96341.39
		1.984	-0.07	-2.47		1258.14		1235.68		0.05	0.03	1235.76	
47128	S				51.46		2.1535		6.017				97577.14
		1.324	0.01	-1.65		8267.97		8120.41		0.03	0.02	8120.46	
97101	M				51.50		2.1514		6.029				105697.60
		1.485	0.04	-0.44		3557.94		3494.43		0.01	0.02	3494.46	
97102	M				51.55		2.1481		6.034				109192.06
		1.045	0.14	0.41		17617.35		17302.81		0.01	0.01	17302.83	
97103	M				51.58		2.1434		6.036				126494.90
		1.687	-0.16	0.24		22657.65		22253.00		0.01	0.02	22253.03	
97104	M				51.63		2.1376		6.039				148747.93
		1.072	0.09	-1.21		-12451.27		-12228.88		0.00	0.02	-12228.86	
97105	K				51.66		2.1404		6.040				136519.07
		0.985	0.32	-0.08		-19062.64		-18722.25		0.01	0.01	-18722.23	
97106	M				51.70		2.1474		6.045				117796.83
		1.648	-0.10	-1.09		-5835.32		-5731.16		0.02	0.02	-5731.12	
97107	M				51.75		2.1515		6.054				112065.73
		1.765	-0.05	-0.25		1019.36		1001.17		0.02	0.03	1001.22	
97108	S				51.81		2.1598		6.061				113066.94
		1.370	0.00	0.61		1349.55		1325.48		0.01	0.02	1325.51	
97109	M				51.86		2.1600		6.067				114392.45
		0.881	-0.10	-0.18		8660.85		8506.34		0.00	0.01	8506.35	
97110	K				51.88		2.1578		6.066				122898.79
		2.380	-0.29	0.12		-8545.70		-8393.24		-0.03	0.03	-8393.24	
563930	M				51.91		2.1611		6.053				114505.56
		1.851	0.15	0.22		9025.04		8864.03		-0.04	0.03	8864.02	
97111	M				51.92		2.1589		6.037				123369.57
		1.589	0.06	-1.18		5052.99		4962.84		-0.02	0.02	4962.84	
563928	M				51.96		2.1593		6.031				128332.42
		1.677	0.15	-1.89		2157.80		2119.30		-0.01	0.02	2119.31	
563927	K				51.99		2.1582		6.028				130451.73

1	2	3	4	5	6	7	8	9	10	11	12	13	14
563927	K				51.99		2.1582		6.028				130451.73
		1.520	0.06	0.78		-966.53		-949.29		0.00	0.02	-949.27	
97112	M				52.03		2.1543		6.027				129502.46
		2.116	-0.21	1.64		1687.16		1657.05		-0.01	0.03	1657.07	
97113	M				52.07		2.1534		6.022				131159.53
		1.340	-0.01	1.51		6150.59		6040.82		-0.01	0.02	6040.83	
563925	M				52.10		2.1522		6.017				137200.36
		1.989	-0.27	0.66		-20687.10		-20317.94		-0.01	0.03	-20317.92	
563924	M				52.15		2.1583		6.013				116882.44
		3.243	0.19	1.53		-10830.35		-10637.15		-0.02	0.05	-10637.12	
563923	M				52.23		2.1631		6.005				106245.31
		1.855	0.03	-0.25		-4950.03		-4861.74		-0.01	0.03	-4861.72	
563922	M				52.28		2.1656		6.000				101383.60
		1.886	0.00	-1.17		-617.14		-606.14		-0.02	0.03	-606.13	
97114	S				52.31		2.1659		5.991				100777.46
		1.807	-0.01	0.62		1741.54		1710.49		0.00	0.03	1710.52	
97115	M				52.35		2.1682		5.992				102487.97
		1.922	-0.06	0.13		10806.68		10613.99		0.03	0.03	10614.05	
97116	K				52.41		2.1676		6.005				113102.02
		1.503	-0.07	0.13		-4052.15		-3979.90		0.03	0.02	-3979.85	
97117	M				52.46		2.1704		6.017				109122.17
		1.610	0.04	-0.01		7977.70		7835.46		0.01	0.02	7835.49	
97118	M				52.51		2.1700		6.022				116957.67
		1.606	0.00	2.52		1238.62		1216.54		0.00	0.02	1216.56	
724143	M				52.56		2.1719		6.023				118174.23
		2.333	0.08	0.20		-421.99		-414.47		0.01	0.03	-414.43	
97119	K				52.64		2.1760		6.029				117759.80
		1.969	0.11	1.96		2398.00		2355.26		0.02	0.03	2355.31	
724145	M				52.70		2.1797		6.036				120115.12
		2.275	0.03	0.71		-6575.54		-6458.37		0.03	0.03	-6458.31	
724146	M				52.78		2.1828		6.050				113656.81
		1.853	-0.09	1.62		-6489.13		-6373.53		0.03	0.03	-6373.47	
724147	M				52.85		2.1856		6.061				107283.34
		2.311	0.08	2.18		5192.85		5100.34		0.04	0.03	5100.41	
724148	M				52.93		2.1855		6.076				112383.75
		2.241	-0.05	2.51		-6933.16		-6809.66		0.04	0.03	-6809.59	
TIEL59	M				53.01		2.1863		6.090				105574.16
		1.008	0.07	3.13		2398.68		2355.95		0.02	0.01	2355.98	
97120	M				53.04		2.1861		6.097				107930.16
		1.356	0.03	0.01		-2378.22		-2335.85		0.02	0.02	-2335.81	
724149	M				53.09		2.1870		6.105				105594.35
		1.203	-0.05	0.43		-5423.01		-5326.41		0.01	0.02	-5326.38	
97121	M				53.13		2.1867		6.111				100267.96
		1.197	-0.12	1.97		-4916.01		-4828.44		0.01	0.02	-4828.41	
97122	S				53.18		2.1874		6.116				95439.54
		0.130	0.01	-0.02		-473.49		-465.05		0.00	-0.08	-465.13	
97123	S				53.18		2.1876		6.116				94974.41
		67.629	-0.31	14.09		-8996.47		-8836.49		0.41	0.76	-8835.32	

80 B LESKELÄ-VAALA 1997.60

97123	S				53.18		2.1876		6.116				94974.41
		0.130	0.01	-0.23		473.64		465.21		0.00	-0.08	465.13	
97122	S				53.18		2.1874		6.116				95439.54
		1.287	0.11	0.39		2246.94		2206.92		-0.03	0.02	2206.91	
724104	M				53.17		2.1870		6.105				97646.46
		2.066	0.04	1.60		-940.62		-923.87		-0.06	0.03	-923.90	
724103	M				53.15		2.1869		6.080				96722.56
		1.399	-0.02	1.85		787.87		773.84		-0.04	0.02	773.82	
724102	M				53.13		2.1862		6.062				97496.38
		1.267	0.01	-0.25		-2167.69		-2129.08		-0.03	0.02	-2129.09	
97124	M				53.15		2.1868		6.052				95367.28
		1.499	0.06	0.50		3612.69		3548.34		-0.04	0.02	3548.32	
724101	M				53.15		2.1853		6.036				98915.60
		1.625	0.04	0.60		4645.66		4562.90		-0.02	0.02	4562.90	
562531	M				53.17		2.1844		6.028				103478.50

1	2	3	4	5	6	7	8	9	10	11	12	13	14
562531	M				53.17		2.1844		6.028				103478.50
		1.951	0.21	-0.13		2757.15		2708.03		-0.01	0.03	2708.05	
624491	M				53.22		2.1837		6.023				106186.55
		1.644	-0.44	-0.33		-17382.86		-17073.18		0.01	0.02	-17073.15	
624492	M				53.27		2.1862		6.029				89113.41
		2.074	0.06	-0.19		-5144.77		-5053.12		0.00	0.03	-5053.09	
624493	M				53.33		2.1865		6.028				84060.32
		1.494	0.00	-0.93		4846.08		4759.75		-0.02	0.02	4759.75	
97125	K				53.36		2.1861		6.019				88820.07
		0.553	0.02	-1.01		2011.23		1975.40		-0.01	0.01	1975.40	
624494	M				53.37		2.1858		6.016				90795.47
		1.275	0.08	-0.72		4715.38		4631.38		-0.03	0.02	4631.37	
97126	M				53.38		2.1846		6.005				95426.84
		1.075	0.00	0.39		3106.72		3051.38		-0.03	0.02	3051.37	
931603	M				53.38		2.1840		5.994				98478.20
		2.263	-0.20	0.06		-8467.27		-8316.43		-0.02	0.03	-8316.42	
931604	M				53.43		2.1869		5.988				90161.79
		1.352	-0.06	1.58		-4101.25		-4028.20		0.01	0.02	-4028.17	
97127	M				53.48		2.1889		5.992				86133.62
		1.168	-0.19	-0.62		-3333.30		-3273.94		0.02	0.02	-3273.90	
624497	M				53.52		2.1906		5.999				82859.71
		2.052	0.11	0.74		3377.32		3317.17		0.02	0.03	3317.22	
624498	M				53.59		2.1908		6.008				86176.93
		2.021	0.12	2.14		-8100.39		-7956.14		0.02	0.03	-7956.09	
97128	S				53.66		2.1932		6.018				78220.84
		2.326	0.20	1.90		5331.94		5237.00		-0.04	0.03	5236.99	
97129	S				53.68		2.1923		6.002				83457.83
		2.144	0.03	0.97		2095.16		2057.85		-0.02	0.03	2057.86	
97130	M				53.72		2.1922		5.993				85515.69
		1.630	0.15	1.53		2727.09		2678.52		0.00	0.02	2678.54	
691552	M				53.77		2.1926		5.992				88194.24
		1.119	-0.02	1.84		-611.33		-600.44		-0.01	0.02	-600.43	
3810	M				53.79		2.1936		5.987				87593.80
		1.380	0.16	1.10		5030.91		4941.32		-0.02	0.02	4941.32	
691553	M				53.82		2.1934		5.979				92535.12
		1.853	0.11	0.23		2939.86		2887.52		-0.02	0.03	2887.53	
3811	M				53.85		2.1934		5.969				95422.65
		3.534	-0.11	0.98		1803.93		1771.82		0.00	0.05	1771.87	
691557	M				53.96		2.1960		5.968				97194.51
		1.083	0.02	1.10		2673.53		2625.93		0.00	0.02	2625.95	
3813	M				53.99		2.1961		5.969				99820.45
		1.238	0.06	1.50		-6243.41		-6132.26		0.00	0.02	-6132.24	
691558	S				54.02		2.1979		5.970				93688.21
		1.210	0.08	-0.20		5971.19		5864.89		0.00	0.02	5864.91	
3814	M				54.05		2.1972		5.971				99553.12
		3.853	-0.09	1.64		1966.84		1931.82		-0.05	0.05	1931.82	
97131	S				54.12		2.1972		5.952				101484.94
		4.000	-0.10	1.92		4514.12		4433.76		-0.05	0.06	4433.77	
3816	M				54.18		2.1968		5.931				105918.70
		2.367	-0.01	-0.01		-2332.94		-2291.41		-0.04	0.03	-2291.42	
97132	S				54.21		2.1971		5.914				103627.29
		1.684	0.03	0.00		745.18		731.93		-0.04	0.02	731.91	
97133	S				54.22		2.1965		5.898				104359.19
		1.799	0.14	1.40		2761.13		2711.97		-0.04	0.03	2711.96	
691568	P				54.22		2.1958		5.880				107071.14
		2.905	0.00	2.09		5345.88		5250.71		-0.06	0.04	5250.69	
3819	M				54.24		2.1946		5.856				112321.84
		2.002	0.05	3.51		5101.47		5010.63		-0.05	0.03	5010.61	
3820	M				54.24		2.1923		5.837				117332.44
		2.047	0.07	1.39		14094.35		13843.34		-0.05	0.03	13843.32	
3821	K				54.23		2.1891		5.816				131175.76
		0.953	-0.01	1.03		1430.92		1405.43		-0.01	0.01	1405.43	
691573	K				54.25		2.1886		5.811				132581.20
		1.350	0.04	0.62		-7061.28		-6935.51		-0.02	0.02	-6935.51	
97134	M				54.27		2.1890		5.803				125645.69
		1.551	-0.01	0.75		3320.60		3261.46		0.00	0.02	3261.48	
3823	M				54.31		2.1878		5.801				128907.17

1	2	3	4	5	6	7	8	9	10	11	12	13	14
3823	M				54.31		2.1878		5.801				128907.17
		1.261	-0.09	-0.02		3220.67		3163.30		0.02	0.02	3163.34	
691576	M				54.35		2.1870		5.809				132070.51
		0.984	0.00	-0.57		2068.95		2032.10		0.01	0.01	2032.12	
691577	M				54.38		2.1871		5.815				134102.63
		1.606	-0.09	1.14		-1084.01		-1064.71		0.00	0.02	-1064.69	
97135	R				54.43		2.1882		5.816				133037.94
		1.668	-0.09	-0.51		-5518.05		-5419.77		0.01	0.02	-5419.74	
97136	R				54.48		2.1901		5.821				127618.22
		1.488	-0.09	0.55		-3669.72		-3604.36		-0.01	0.02	-3604.35	
3824	M				54.52		2.1914		5.817				124013.87
		0.881	-0.02	-0.74		645.79		634.29		0.00	0.01	634.30	
691581	M				54.55		2.1917		5.816				124648.16
		1.107	-0.01	-1.44		1196.59		1175.29		0.01	0.02	1175.32	
691582	M				54.58		2.1920		5.820				125823.48
		1.330	-0.07	0.36		-284.12		-279.06		0.01	0.02	-279.03	
691583	M				54.63		2.1923		5.822				125544.45
		1.330	0.04	-0.96		-2295.23		-2254.36		0.00	0.02	-2254.34	
3826	S				54.66		2.1932		5.823				123290.09
		0.881	0.07	0.51		-578.32		-568.03		0.00	-0.41	-568.44	
VAALA5	K				54.67		2.1933		5.822				122721.65
		0.035	-0.01	0.08		1434.02		1408.49		0.00	-0.02	1408.47	
1964	K				54.67		2.1930		5.822				124130.13
		82.794	0.39	29.13		29684.25		29155.79		-0.73	0.66	29155.72	

82 KOLARI-LOHINIVA 2000.65

60156	K				65.15		2.3883		5.881				141713.09
		2.630	0.04	-0.96		8260.22		8114.74		0.00	-0.07	8114.67	
00204	M				65.11		2.3854		5.888				149827.76
		1.561	0.05	0.81		7794.20		7656.91		0.00	-0.04	7656.87	
532402	M				65.08		2.3853		5.893				157484.63
		1.380	-0.09	-1.56		-3208.80		-3152.28		0.00	-0.04	-3152.32	
AP0901	P				65.04		2.3870		5.899				154332.32
		2.848	0.27	-0.19		22669.86		22270.39		-0.01	-0.08	22270.30	
532403	M				64.97		2.3703		5.916				176602.62
		1.031	0.20	0.16		20615.89		20252.37		-0.01	-0.03	20252.33	
00203	M				64.93		2.3639		5.925				196854.95
		1.354	0.01	0.66		-8897.18		-8740.28		-0.01	-0.04	-8740.33	
532404	M				64.89		2.3647		5.936				188114.63
		1.879	-0.27	0.76		-17826.98		-17512.62		-0.01	-0.05	-17512.68	
532405	M				64.83		2.3666		5.949				170601.95
		4.189	-0.08	-1.46		-5479.84		-5383.20		-0.02	-0.12	-5383.34	
96M9601	M				64.71		2.3625		5.978				165218.60
		2.968	0.13	1.06		18221.87		17900.46		-0.01	-0.08	17900.37	
AP0503	P				64.62		2.3592		5.999				183118.97
		2.169	-0.26	-0.40		-15172.99		-14905.35		-0.01	-0.06	-14905.42	
532409	M				64.56		2.3621		6.009				168213.55
		2.344	0.02	1.77		2520.47		2476.01		0.00	-0.06	2475.95	
532410	P				64.51		2.3623		6.016				170689.49
		2.172	-0.24	1.32		-24314.07		-23885.31		-0.01	-0.06	-23885.38	
532412	S				64.44		2.3692		6.033				146804.11
		2.349	0.28	-2.35		27030.64		26554.00		0.01	-0.06	26553.95	
532301	M				64.44		2.3642		6.024				173358.06
		2.061	0.18	-0.77		59714.45		58660.97		0.01	-0.06	58660.92	
532302	M				64.45		2.3519		6.015				232018.98
		1.477	-0.15	-0.32		-11694.19		-11487.83		0.00	-0.04	-11487.87	
00201	K				64.45		2.3554		6.009				220531.11
		3.742	-0.29	-0.31		-22921.79		-22517.40		0.01	-0.10	-22517.49	
98M9813	K				64.43		2.3607		6.000				198013.62
		0.818	-0.26	-0.89		-15885.68		-15605.49		0.00	-0.02	-15605.51	
532305	K				64.42		2.3642		5.999				182408.11
		4.017	0.16	1.86		-9225.80		-9063.12		0.01	-0.11	-9063.22	
532307	M				64.44		2.3681		5.978				173344.89
		1.670	-0.22	-1.20		-7318.18		-7189.16		0.00	-0.05	-7189.21	
00202	M				64.43		2.3702		5.972				166155.69

1	2	3	4	5	6	7	8	9	10	11	12	13	14
00202	M				64.43		2.3702		5.972				166155.69
		1.195	-0.09	1.28		-2388.66		-2346.55		0.01	-0.03	-2346.57	
532308	M				64.46		2.3711		5.962				163809.12
		1.768	0.20	-1.22		18533.26		18206.52		0.01	-0.05	18206.48	
532309	M				64.51		2.3687		5.948				182015.60
		1.237	0.13	0.30		9975.88		9799.99		0.01	-0.03	9799.97	
GL9	K				64.54		2.3677		5.938				191815.56
		0.492	0.03	-0.15		1344.37		1320.68		0.00	-0.01	1320.67	
532310	M				64.54		2.3676		5.935				193136.23
		1.815	0.54	-0.19		36510.94		35867.05		0.01	-0.05	35867.01	
861307	K				64.57		2.3611		5.923				229003.24
		0.150	0.00	0.15		998.57		980.96		0.00	0.00	980.96	
GL2	K				64.58		2.3608		5.923				229984.19
		0.018	0.00	-0.20		709.55		697.04		0.00	0.00	697.04	
871002	K				64.58		2.3608		5.923				230681.23
		0.532	-0.06	-0.05		-18409.92		-18085.22		0.00	-0.01	-18085.23	
AP1102	P				64.56		2.3642		5.925				212596.00
		0.450	0.03	0.36		-1600.77		-1572.54		0.00	-0.01	-1572.55	
532311	M				64.57		2.3646		5.922				211023.45
		1.910	0.03	0.46		2091.43		2054.54		0.00	-0.05	2054.49	
532312	M				64.54		2.3639		5.922				213077.94
		2.063	-0.03	-0.08		-13490.12		-13252.22		0.00	-0.06	-13252.28	
532313	K				64.52		2.3662		5.920				199825.65
		2.022	0.14	-0.38		9021.13		8862.04		0.00	-0.06	8861.98	
532314	M				64.49		2.3642		5.918				208687.64
		2.074	-0.10	0.01		-7807.59		-7669.90		0.00	-0.06	-7669.96	
532315	M				64.45		2.3655		5.922				201017.69
		1.972	0.01	-0.89		-8655.59		-8502.95		0.00	-0.05	-8503.00	
00205	M				64.41		2.3667		5.924				192514.68
		2.227	-0.11	-1.04		-22339.54		-21945.67		0.00	-0.06	-21945.73	
921336	M				64.37		2.3718		5.926				170568.95
		2.211	0.04	1.18		1189.62		1168.65		0.00	-0.06	1168.59	
00206	M				64.34		2.3716		5.924				171737.54
		1.810	-0.30	0.49		41450.73		40719.86		0.01	-0.05	40719.82	
532319	M				64.35		2.3641		5.915				212457.36
		2.158	0.04	-0.16		-7385.64		-7255.40		0.01	-0.06	-7255.45	
532320	M				64.38		2.3674		5.900				205201.91
		1.894	0.10	0.56		-1733.38		-1702.82		0.01	-0.05	-1702.86	
532321	M				64.41		2.3683		5.887				203499.05
		2.176	0.27	0.27		-12443.75		-12224.36		0.01	-0.06	-12224.41	
532322	M				64.45		2.3701		5.871				191274.64
		2.595	0.20	0.86		-34571.30		-33961.94		0.01	-0.07	-33962.00	
532323	M				64.50		2.3772		5.850				157312.64
		1.795	-0.10	-0.66		10091.93		9914.07		0.01	-0.05	9914.03	
00207	M				64.52		2.3752		5.840				167226.67
		1.904	0.14	-0.47		-11301.05		-11101.89		0.01	-0.05	-11101.93	
98221	M				64.55		2.3776		5.827				156124.74
		1.358	-0.02	0.22		4859.46		4773.82		0.00	-0.29	4773.53	
00208	K				64.58		2.3776		5.823				160898.27
		0.054	0.12	0.02		-6736.95		-6618.23		0.00	-0.01	-6618.24	
75208	K				64.58		2.3789		5.823				154280.03
		80.539	0.69	-1.34		12794.72		12569.35		0.06	-2.45	12566.96	

83 A KAUKLAHTI-METSÄHOVI 2003.76

2183	K				36.49		1.9160		2.418				6593.52
		0.472	-0.08	-0.05		7461.92		7326.98		0.00	0.11	7327.09	
00400	K				36.48		1.9141		2.419				13920.60
		1.924	-0.09	-1.21		-5712.31		-5609.00		0.00	0.44	-5608.56	
00401	K				36.44		1.9131		2.419				8312.05
		0.046	-0.01	-0.08		1198.18		1176.51		0.00	0.01	1176.52	
35013	K				36.44		1.9129		2.419				9488.57
		1.300	0.03	-0.13		4220.21		4143.88		-0.04	-0.01	4143.83	
00402	K				36.47		1.9125		2.430				13632.39
		1.171	-0.01	-0.72		2900.97		2848.50		-0.05	-0.01	2848.44	
00403	K				36.50		1.9122		2.445				16480.84

1	2	3	4	5	6	7	8	9	10	11	12	13	14
00403	K				36.50		1.9122		2.445				16480.84
		0.637	0.11	0.18		16774.58		16471.15		-0.03	0.00	16471.12	
00404	K				36.51		1.9094		2.452				32951.95
		2.339	0.73	-1.49		-9051.94		-8888.20		-0.08	-0.01	-8888.29	
00405	K				36.53		1.9125		2.474				24063.66
		1.837	0.20	0.34		26682.83		26200.20		-0.07	-0.01	26200.12	
00406	K				36.56		1.9121		2.493				50263.78
		1.540	-0.06	0.08		871.31		855.55		-0.07	-0.01	855.47	
543343	K				36.60		1.9140		2.513				51119.25
		2.410	-0.21	-0.25		2926.92		2873.98		-0.06	-0.01	2873.91	
00407	K				36.60		1.9150		2.529				53993.16
		0.972	0.24	1.12		-669.92		-657.80		-0.04	-0.01	-657.85	
00408	K				36.63		1.9168		2.540				53335.31
		1.095	0.15	0.21		9567.14		9394.14		-0.05	-0.01	9394.08	
00409	K				36.65		1.9176		2.553				62729.39
		0.841	0.03	0.20		-1481.02		-1454.24		-0.03	0.00	-1454.27	
00410	K				36.66		1.9191		2.560				61275.12
		1.163	-0.08	0.67		1075.26		1055.82		0.01	-0.36	1055.47	
742111	K				36.63		1.9183		2.556				62330.58
		0.789	0.06	0.73		-7097.61		-6969.28		0.03	0.13	-6969.12	
00411	K				36.60		1.9192		2.548				55361.47
		0.026	0.00	-0.05		-373.45		-366.70		0.00	0.00	-366.70	
M3	K				36.60		1.9193		2.548				54994.76
		0.246	0.00	0.01		-2416.27		-2372.58		0.01	-0.15	-2372.72	
M2	K				36.60		1.9187		2.544				52622.03
		0.281	-0.02	-0.07		-323.17		-317.32		0.01	-0.07	-317.38	
M1	K				36.59		1.9173		2.541				52304.64
		0.006	0.00	0.00		-67.25		-66.04		0.00	0.00	-66.04	
00412	K				36.59		1.9173		2.541				52238.60
		0.040	0.00	0.14		1066.52		1047.23		0.00	-0.09	1047.14	
SF348	K				36.59		1.9169		2.540				53285.74
		0.077	0.06	0.21		1771.18		1739.15		0.00	-0.05	1739.10	
SF392	K				36.58		1.9165		2.540				55024.85
		19.212	1.05	-0.16		49324.07		48431.91		-0.46	-0.11	48431.34	

PP A FUNDAMENTAL BENCH MARK 2007.47

PP2000 IS THE FUNDAMENTAL BENCH MARK OF THE THIRD LEVELLING
THE BENCH MARK BOLT IS UNDER THE MONUMENT

PP2000	K				36.59		1.9169		2.540				53439.65
		0.005	0.00	0.00		-156.74		-153.91		0.00	-0.01	-153.92	
SF348	K				36.59		1.9169		2.540				53285.74
		0.005	0.00	0.00		-156.74		-153.91		0.00	-0.01	-153.92	

PP B FUNDAMENTAL BENCH MARK 2007.47

PP2000 IS THE FUNDAMENTAL BENCH MARK OF THE THIRD LEVELLING
THE BENCH MARK BOLT IS UNDER THE MONUMENT

SF348	K				36.59		1.9169		2.540				53285.74
		0.005	0.00	0.00		156.76		153.92		0.00	0.00	153.92	
PP2000	K				36.59		1.9169		2.540				53439.65
		0.005	0.00	0.00		156.76		153.92		0.00	0.00	153.92	

83 B METSÄHOVI-OJAKKALA 2002.80

SF392	K				36.58		1.9165		2.540				55024.85
		0.077	0.03	-0.13		-1771.09		-1739.06		0.00	-0.04	-1739.10	
SF348	K				36.59		1.9169		2.540				53285.74
		0.041	0.02	-0.06		-1066.34		-1047.05		0.00	-0.09	-1047.14	
00412	K				36.59		1.9173		2.541				52238.60
		0.006	0.00	-0.02		67.26		66.05		0.00	-0.01	66.04	
M1	K				36.59		1.9173		2.541				52304.64
		0.281	-0.01	-0.10		323.32		317.47		-0.01	-0.08	317.38	
M2	K				36.60		1.9187		2.544				52622.03
		0.247	-0.04	-0.12		2416.59		2372.89		-0.01	-0.16	2372.72	
M3	K				36.60		1.9193		2.548				54994.76
		0.026	-0.01	-0.08		373.46		366.71		0.00	-0.01	366.70	
00411	K				36.60		1.9192		2.548				55361.47

1	2	3	4	5	6	7	8	9	10	11	12	13	14
00411	K				36.60		1.9192		2.548				55361.47
		0.796	-0.14	0.12		7097.33		6969.00		-0.02	0.14	6969.12	
742111	K				36.63		1.9183		2.556				62330.58
		1.150	0.03	0.92		-1074.53		-1055.10		-0.01	-0.36	-1055.47	
00410	K				36.66		1.9191		2.560				61275.12
		1.264	0.14	-0.03		-6378.36		-6263.04		-0.02	-0.01	-6263.07	
845334	K				36.70		1.9220		2.567				55012.05
		1.595	0.04	-2.09		-3468.09		-3405.40		-0.02	-0.01	-3405.43	
845335	K				36.74		1.9246		2.575				51606.62
		1.271	0.07	-1.45		-6370.92		-6255.77		0.01	-0.01	-6255.77	
00413	K				36.76		1.9252		2.573				45350.85
		1.040	-0.22	-1.36		21072.57		20691.66		-0.03	-0.01	20691.62	
00414	K				36.80		1.9231		2.584				66042.48
		1.113	0.14	-0.49		-5229.00		-5134.48		-0.03	-0.01	-5134.52	
00415	K				36.83		1.9261		2.594				60907.96
		1.142	-0.08	-0.94		8171.23		8023.55		-0.04	-0.01	8023.50	
861458	K				36.86		1.9270		2.609				68931.47
		1.367	-0.12	-1.52		5277.86		5182.48		-0.05	-0.01	5182.42	
971009	K				36.91		1.9303		2.625				74113.89
		0.106	0.13	-0.31		-7119.16		-6990.52		0.00	0.00	-6990.52	
542903	K				36.91		1.9317		2.627				67123.37
		1.284	0.11	-2.26		-8489.88		-8336.50		-0.03	-0.01	-8336.54	
00416	K				36.95		1.9352		2.639				58786.83
		0.709	-0.17	-0.14		8984.50		8822.19		-0.03	0.00	8822.16	
543305	K				36.97		1.9343		2.648				67609.00
		1.541	0.07	-0.61		-3589.51		-3524.67		-0.04	-0.01	-3524.72	
543304	K				37.03		1.9384		2.662				64084.28
		0.925	-0.08	-0.71		7214.86		7084.54		-0.02	0.00	7084.52	
00417	K				37.06		1.9380		2.669				71168.80
		0.653	0.14	-1.56		-5587.31		-5486.40		0.00	0.00	-5486.40	
543303	K				37.07		1.9394		2.669				65682.39
		1.022	-0.25	-2.82		3981.16		3909.26		0.00	-0.01	3909.25	
00418	K				37.10		1.9381		2.670				69591.64
		1.673	-0.16	-2.66		8491.23		8337.87		-0.05	-0.01	8337.81	
543302	K				37.16		1.9391		2.688				77929.45
		0.961	0.29	-2.15		-13208.39		-12969.86		-0.04	-0.01	-12969.91	
00419	K				37.19		1.9431		2.701				64959.54
		1.326	0.08	-1.29		-1553.24		-1525.20		-0.04	-0.01	-1525.25	
543301	K				37.24		1.9458		2.716				63434.30
		0.594	0.08	-0.72		-4552.99		-4470.80		-0.02	0.00	-4470.82	
36048	P				37.25		1.9471		2.722				58963.47
		1.599	-0.09	-0.35		6487.56		6370.44		0.00	-0.93	6369.51	
00420	K				37.28		1.9459		2.721				65332.99
		0.890	0.22	-1.62		3717.45		3650.33		-0.02	-0.52	3649.79	
00421	K				37.31		1.9456		2.727				68982.78
		0.150	-0.07	-0.02		-3311.76		-3251.98		0.00	-0.09	-3252.07	
62	K				37.31		1.9461		2.726				65730.71
		24.849	0.15	-24.57		10905.81		10708.62		-0.52	-2.28	10705.82	

84 EURAJOKI-RUOSNIEMI 2003.63

1833	K				40.78		1.9639		5.166				21169.46
		0.018	-0.01	-0.04		1428.07		1402.31		0.00	0.00	1402.31	
03201	K				40.78		1.9636		5.166				22571.76
		1.739	0.10	0.87		3163.19		3106.14		-0.07	0.34	3106.41	
731471	M				40.80		1.9632		5.185				25678.17
		1.251	0.33	0.23		-10375.24		-10188.12		-0.05	0.24	-10187.93	
573371	K				40.84		1.9658		5.199				15490.25
		1.010	-0.28	-0.24		5481.08		5382.23		-0.04	0.20	5382.39	
731472	M				40.88		1.9648		5.209				20872.63
		0.989	0.13	0.06		4374.87		4295.97		-0.05	0.19	4296.11	
731473	K				40.91		1.9640		5.223				25168.76
		1.070	0.20	0.88		11047.16		10847.90		-0.05	0.21	10848.06	
731474	K				40.95		1.9622		5.237				36016.81
		1.681	0.14	0.70		-4783.11		-4696.84		-0.08	0.33	-4696.59	
731476	K				41.02		1.9652		5.259				31320.22

1	2	3	4	5	6	7	8	9	10	11	12	13	14
731476	K				41.02		1.9652		5.259				31320.22
		0.855	0.03	0.65		-9394.92		-9225.49		-0.01	0.17	-9225.33	
731477	K				41.03		1.9674		5.261				22094.89
		1.758	0.09	0.42		419.91		412.33		0.05	0.34	412.72	
731478	M				41.02		1.9643		5.247				22507.61
		1.261	-0.01	0.79		13198.51		12960.46		-0.02	0.25	12960.69	
1696	K				41.06		1.9625		5.254				35468.29
		0.949	-0.25	0.07		-5301.43		-5205.81		-0.04	0.19	-5205.66	
731479	M				41.08		1.9661		5.266				30262.62
		1.709	-0.11	1.58		11047.22		10848.01		-0.07	0.33	10848.27	
731480	K				41.10		1.9673		5.285				41110.90
		0.011	0.00	-0.03		-210.57		-206.77		0.00	0.00	-206.77	
1697	K				41.10		1.9674		5.285				40904.13
		2.068	-0.12	1.97		-690.74		-678.29		-0.10	0.40	-677.99	
731482	K				41.16		1.9695		5.312				40226.14
		0.802	-0.05	0.93		-1703.74		-1673.02		-0.04	0.16	-1672.90	
731483	K				41.19		1.9711		5.322				38553.24
		1.210	-0.24	3.15		-4061.99		-3988.77		-0.06	0.24	-3988.59	
731484	M				41.23		1.9743		5.339				34564.64
		0.932	0.01	0.44		-3567.72		-3503.42		-0.05	0.18	-3503.29	
731485	K				41.26		1.9768		5.351				31061.36
		0.684	-0.02	-0.02		4718.67		4633.62		0.01	0.13	4633.76	
573372	K				41.26		1.9754		5.348				35695.12
		1.315	0.01	1.22		-4307.99		-4230.34		-0.06	0.26	-4230.14	
731486	M				41.29		1.9778		5.364				31464.98
		0.764	-0.09	1.62		-8712.78		-8555.77		-0.03	0.15	-8555.65	
573373	K				41.32		1.9800		5.373				22909.33
		1.341	-0.44	1.74		-15370.52		-15093.56		-0.05	0.26	-15093.35	
573374	M				41.37		1.9820		5.387				7815.99
		1.994	-0.10	1.88		-4215.45		-4139.49		-0.08	0.39	-4139.18	
573375	M				41.43		1.9831		5.409				3676.80
		1.173	0.18	1.15		1865.69		1832.07		-0.03	0.23	1832.27	
731488	M				41.47		1.9832		5.418				5509.06
		1.104	-0.02	0.76		-1056.93		-1037.89		-0.04	0.22	-1037.71	
731489	M				41.49		1.9841		5.430				4471.35
		0.890	0.09	1.89		2793.20		2742.88		-0.04	0.17	2743.01	
901120	M				41.51		1.9836		5.441				7214.36
		1.687	0.10	3.57		862.80		847.27		-0.07	0.33	847.53	
L10	P				41.56		1.9841		5.460				8061.88
		0.932	-0.03	0.63		5691.17		5588.64		-0.02	0.18	5588.80	
573376	M				41.59		1.9827		5.467				13650.68
		1.193	-0.08	1.54		-2400.37		-2357.13		-0.05	0.23	-2356.95	
731492	M				41.63		1.9815		5.480				11293.73
		1.204	0.02	1.35		23927.38		23496.15		-0.03	0.23	23496.35	
573377	M				41.67		1.9738		5.489				34790.09
		1.059	0.03	1.73		11340.68		11136.23		-0.03	0.21	11136.41	
731493	M				41.70		1.9696		5.497				45926.50
		1.187	-0.04	0.59		2092.91		2055.17		-0.03	0.23	2055.37	
573378	M				41.74		1.9695		5.504				47981.87
		1.440	0.10	0.48		-3360.68		-3300.09		-0.04	0.28	-3299.85	
731494	K				41.78		1.9697		5.514				44682.02
		0.587	0.05	0.24		-6834.14		-6710.92		-0.01	0.11	-6710.82	
731495	K				41.80		1.9704		5.517				37971.20
		1.191	0.13	0.99		-18898.52		-18557.81		-0.03	0.23	-18557.61	
731496	K				41.84		1.9719		5.526				19413.59
		0.572	0.04	0.70		811.94		797.30		-0.01	0.11	797.40	
1709	M				41.86		1.9708		5.530				20211.00
		0.909	-0.07	1.20		4070.22		3996.84		-0.03	0.18	3996.99	
731497	M				41.90		1.9695		5.538				24207.98
		1.224	-0.11	1.31		-6294.19		-6180.71		-0.02	0.24	-6180.49	
1710	M				41.93		1.9713		5.545				18027.48
		1.058	0.11	1.76		-6296.47		-6182.96		0.00	0.21	-6182.75	
731498	M				41.95		1.9735		5.544				11844.73
		0.431	0.01	1.07		834.84		819.79		0.00	0.08	819.87	
P102	M				41.95		1.9747		5.543				12664.61
		0.223	0.03	0.33		-4290.26		-4212.93		0.00	0.04	-4212.89	
762501	M				41.96		1.9759		5.544				8451.73

1	2	3	4	5	6	7	8	9	10	11	12	13	14
762501	M				41.96		1.9759		5.544				8451.73
		1.292	0.01	2.12		750.78		737.25		-0.04	0.25	737.46	
P135	M				42.00		1.9766		5.554				9189.19
		0.759	-0.10	1.70		-979.28		-961.63		-0.03	0.15	-961.51	
P186	M				42.02		1.9769		5.562				8227.67
		0.416	0.08	0.63		3599.54		3534.67		-0.01	0.08	3534.74	
762502	M				42.04		1.9764		5.564				11762.41
		0.380	-0.11	0.67		-3064.06		-3008.83		0.00	0.07	-3008.76	
P138	M				42.05		1.9772		5.565				8753.65
		1.230	-0.18	1.61		-4312.08		-4234.37		0.02	0.24	-4234.11	
921340	S				42.06		1.9795		5.560				4519.54
		1.314	0.00	2.48		2025.15		1988.66		0.02	0.26	1988.94	
P100	P				42.07		1.9819		5.554				6508.48
		0.749	-0.01	0.69		-1307.30		-1283.75		0.02	0.15	-1283.58	
P0310	P				42.07		1.9834		5.549				5224.89
		1.766	-0.02	1.88		-2051.00		-2014.05		0.03	0.34	-2013.68	
94	P				42.08		1.9867		5.542				3211.22
		1.000	0.05	2.20		1628.47		1599.13		0.02	-0.54	1598.61	
1714B	P				42.08		1.9862		5.535				4809.83
		0.552	0.03	0.15		-1683.70		-1653.37		0.00	-0.17	-1653.54	
1715	P				42.09		1.9868		5.536				3156.29
		1.018	-0.02	2.64		398.03		390.86		0.01	-0.31	390.56	
PKP59	S				42.10		1.9876		5.532				3546.85
		1.339	0.00	0.48		-844.47		-829.26		0.02	-0.41	-829.65	
PKP316	P				42.12		1.9924		5.527				2717.20
		1.389	0.01	2.71		5958.11		5850.83		-0.02	-0.42	5850.39	
PKP353	K				42.16		1.9949		5.532				8567.59
		0.574	-0.02	0.91		-3252.66		-3194.10		0.02	-0.10	-3194.18	
1717	K				42.16		1.9959		5.527				5373.41
		0.350	0.01	0.76		978.44		960.83		0.01	-0.03	960.81	
87211	K				42.15		1.9954		5.524				6334.22
		0.209	-0.13	0.94		-1779.07		-1747.04		0.01	0.51	-1746.52	
87210	K				42.15		1.9956		5.522				4587.70
		0.138	-0.02	0.02		4757.21		4671.57		0.00	0.11	4671.68	
51117	K				42.15		1.9950		5.522				9259.38
		57.950	-0.56	62.75		-12136.16		-11917.44		-1.29	8.65	-11910.08	

MAS A MASALA-GEODEETTINEN LAITOS 1995.83

62001	K				36.31		1.9082		2.404				11858.02
		0.866	0.01	0.12		1746.19		1714.60		0.02	-0.21	1714.41	
95011	K				36.34		1.9087		2.408				13572.43
		0.221	-0.36	0.52		10617.85		10425.75		0.00	-0.09	10425.66	
PILARI	P				36.34		1.9068		2.407				23998.08
		0.064	-0.09	0.07		5878.07		5771.72		0.00	0.00	5771.72	
95010	K				36.34		1.9056		2.407				29769.80
		1.151	-0.44	0.71		18242.11		17912.07		0.02	-0.30	17911.79	

MAS B GEODEETTINEN LAITOS-MASALA 1995.83

95010	K				36.34		1.9056		2.407				29769.80
		0.064	0.10	-0.10		-5878.07		-5771.72		0.00	0.00	-5771.72	
PILARI	P				36.34		1.9068		2.407				23998.08
		0.221	0.43	0.24		-10617.66		-10425.56		0.00	-0.10	-10425.66	
95011	K				36.34		1.9087		2.408				13572.43
		0.866	0.00	-1.30		-1745.76		-1714.17		-0.02	-0.22	-1714.41	
62001	K				36.31		1.9082		2.404				11858.02
		1.151	0.53	-1.16		-18241.49		-17911.45		-0.02	-0.32	-17911.79	

1	2	3	4	5	6	7	8	9	10	11	12	13	14
OLK A LAPIJOKI-OLKILUOTO 2003.69													
51310	K				40.71		1.9686		5.174				18346.17
		0.082	0.02	-0.01		1481.31		1454.60		0.00	-0.07	1454.53	
03212	K				40.72		1.9683		5.175				19800.70
		0.820	0.01	0.80		-3267.85		-3208.93		-0.02	0.07	-3208.88	
03202	K				40.72		1.9693		5.181				16591.81
		1.935	0.13	0.79		-6056.25		-5947.06		-0.07	-0.08	-5947.21	
03203	K				40.74		1.9708		5.201				10644.60
		1.815	-0.09	1.77		-370.89		-364.20		-0.09	0.19	-364.10	
03204	K				40.79		1.9723		5.227				10280.50
		2.005	-0.20	2.42		14861.74		14593.82		-0.10	-0.32	14593.40	
03205	K				40.84		1.9716		5.252				24873.89
		1.476	0.28	1.43		-14506.72		-14245.21		-0.07	0.35	-14244.93	
03206	K				40.87		1.9750		5.271				10628.97
		1.989	0.05	1.32		-7298.89		-7167.34		-0.09	-0.04	-7167.47	
03207	K				40.92		1.9789		5.296				3461.51
		0.911	0.06	1.57		-1635.24		-1605.77		-0.03	0.06	-1605.74	
03211	K				40.92		1.9814		5.305				1855.77
		0.722	0.11	0.49		8170.22		8023.00		-0.03	0.29	8023.26	
03208	K				40.94		1.9808		5.314				9879.03
		1.743	-0.07	0.52		774.72		760.76		-0.08	-0.13	760.55	
03209	K				40.98		1.9832		5.335				10639.58
		0.012	-0.01	-0.02		1429.92		1404.16		0.00	-0.01	1404.15	
03210	K				40.98		1.9830		5.335				12043.73
		0.561	0.04	0.85		-2394.43		-2351.29		-0.02	-0.05	-2351.36	
03216	K				40.99		1.9837		5.341				9692.37
		0.016	-0.01	0.02		1020.14		1001.76		0.00	0.00	1001.76	
03219	K				40.99		1.9835		5.341				10694.14
		14.087	0.32	11.95		-7792.23		-7651.70		-0.60	0.26	-7652.04	
OLK B OLKILUOTO-LAPIJOKI 2003.74													
03219	K				40.99		1.9835		5.341				10694.14
		0.016	0.01	0.02		-1020.14		-1001.76		0.00	0.00	-1001.76	
03216	K				40.99		1.9837		5.341				9692.37
		0.561	0.00	0.20		2394.59		2351.44		0.02	-0.10	2351.36	
03210	K				40.98		1.9830		5.335				12043.73
		0.012	0.01	0.00		-1429.91		-1404.14		0.00	-0.01	-1404.15	
03209	K				40.98		1.9832		5.335				10639.58
		1.743	0.00	3.72		-774.32		-760.37		0.08	-0.26	-760.55	
03208	K				40.94		1.9808		5.314				9879.03
		0.723	0.01	1.03		-8171.09		-8023.86		0.03	0.57	-8023.26	
03211	K				40.92		1.9814		5.305				1855.77
		0.909	-0.05	1.40		1635.05		1605.58		0.03	0.13	1605.74	
03207	K				40.92		1.9789		5.296				3461.51
		1.990	-0.01	1.63		7299.00		7167.45		0.09	-0.07	7167.47	
03206	K				40.87		1.9750		5.271				10628.97
		1.476	-0.23	3.40		14505.64		14244.15		0.07	0.71	14244.93	
03205	K				40.84		1.9716		5.252				24873.89
		2.006	-0.09	3.84		-14860.77		-14592.86		0.10	-0.64	-14593.40	
03204	K				40.79		1.9723		5.227				10280.50
		1.806	0.00	3.29		370.30		363.62		0.10	0.38	364.10	
03203	K				40.74		1.9708		5.201				10644.60
		2.053	0.01	2.97		6056.51		5947.31		0.08	-0.18	5947.21	
03202	K				40.72		1.9693		5.181				16591.81
		0.820	0.00	0.78		3267.65		3208.73		0.02	0.13	3208.88	
03212	K				40.72		1.9683		5.175				19800.70
		0.083	0.01	0.29		-1481.11		-1454.40		0.00	-0.13	-1454.53	
51310	K				40.71		1.9686		5.174				18346.17
		14.198	-0.33	22.57		7791.41		7650.89		0.62	0.53	7652.04	

1	2	3	4	5	6	7	8	9	10	11	12	13	14
						A A HAMINA-HAMINA TIDE GAUGE 1980.39							
36189	K				38.10		1.9220		1.744				1894.68
		0.300	-0.04	0.30		-853.47		-838.05		-0.01	-0.01	-838.07	
P	K				38.09		1.9220		1.744				1056.61
		0.300	-0.04	0.30		-853.47		-838.05		-0.01	-0.01	-838.07	
						A B HAMINA TIDE GAUGE-HAMINA 1980.39							
P	K				38.09		1.9220		1.744				1056.61
		0.300	0.04	0.25		853.50		838.07		0.01	-0.01	838.07	
36189	K				38.10		1.9220		1.744				1894.68
		0.300	0.04	0.25		853.50		838.07		0.01	-0.01	838.07	
						B A PASILA-HELSINKI TIDE GAUGE 1978.68							
35007	K				36.52		1.9039		2.303				20545.81
		1.275	-0.27	0.88		-4891.61		-4803.10		-0.30	-0.14	-4803.54	
70009	K				36.48		1.9030		2.289				15742.27
		1.446	-0.41	-0.26		-11107.56		-10906.55		-0.35	0.65	-10906.25	
78202	K				36.43		1.9043		2.272				4836.03
		1.148	-0.10	-1.55		-1012.79		-994.46		-0.19	0.00	-994.65	
1H	K				36.39		1.9049		2.263				3841.37
		0.707	0.03	-1.29		3927.95		3856.87		-0.01	-0.06	3856.80	
35004	K				36.37		1.9047		2.263				7698.18
		1.282	-0.18	-0.67		-5015.39		-4924.64		-0.27	-0.02	-4924.93	
4H	K				36.33		1.9059		2.250				2773.25
		0.569	-0.04	-0.30		384.11		377.16		-0.18	-0.11	376.87	
78201	K				36.31		1.9071		2.242				3150.12
		1.266	-0.07	-1.32		-368.13		-361.48		-0.17	-1.06	-362.71	
7HB	K				36.31		1.9088		2.233				2787.41
		7.693	-1.04	-4.51		-18083.42		-17756.20		-1.47	-0.74	-17758.41	
						B B HELSINKI TIDE GAUGE–PASILA 1978.67							
7HB	K				36.31		1.9088		2.233				2787.41
		1.229	0.07	-0.07		370.25		363.56		0.17	-1.02	362.71	
78201	K				36.31		1.9071		2.242				3150.12
		0.569	0.06	-1.00		-383.89		-376.94		0.18	-0.11	-376.87	
4H	K				36.33		1.9059		2.250				2773.25
		1.287	0.14	0.46		5015.43		4924.68		0.27	-0.02	4924.93	
35004	K				36.37		1.9047		2.263				7698.18
		0.702	-0.06	0.70		-3927.83		-3856.76		0.01	-0.05	-3856.80	
1H	K				36.39		1.9049		2.263				3841.37
		1.155	0.11	0.00		1012.79		994.46		0.19	0.00	994.65	
78202	K				36.43		1.9043		2.272				4836.03
		1.442	0.46	-0.21		11106.24		10905.26		0.35	0.64	10906.25	
70009	K				36.48		1.9030		2.289				15742.27
		1.286	0.27	-1.06		4891.90		4803.38		0.30	-0.14	4803.54	
35007	K				36.52		1.9039		2.303				20545.81
		7.670	1.05	-1.18		18084.89		17757.64		1.47	-0.70	17758.41	
						B2 A FUNDAMENTAL BENCH MARK-HELSINKI TIDE GAUGE 1978.67							
55003	K				36.34		1.9014		2.245				29013.16
		0.060	-0.03	-0.05		-1946.05		-1910.83		-0.02	0.01	-1910.84	
55002	K				36.34		1.9023		2.244				27102.31
		1.124	-0.67	0.25		-24761.90		-24313.84		-0.24	-0.82	-24314.90	
7HB	K				36.31		1.9088		2.233				2787.41
		1.184	-0.70	0.20		-26707.94		-26224.66		-0.26	-0.81	-26225.73	

1	2	3	4	5	6	7	8	9	10	11	12	13	14
B2 B HELSINKI TIDE GAUGE-FUNDAMENTAL BENCH MARK 1978.68													
7HB	K				36.31		1.9088		2.233				2787.41
		1.408	0.45	-0.42		24761.99		24313.93		0.23	0.74	24314.90	
55002	K				36.34		1.9023		2.244				27102.31
		0.060	0.03	-0.23		1946.12		1910.90		0.01	-0.07	1910.84	
55003	K				36.34		1.9014		2.245				29013.16
		1.468	0.48	-0.65		26708.10		26224.82		0.24	0.67	26225.73	
B2 A HELSINKI TIDE GAUGE - FUNDAMENTAL BENCH MARK 2001.38													
PP IS THE FUNDAMENTAL BENCH MARK OF THE FIRST AND THE SECOND LEVELLING THE BENCH MARK BOLT IS UNDER THE MONUMENT													
92401	K				36.31		1.9088		2.233				2960.73
		0.005	0.00	-0.03		-176.51		-173.32		0.00	0.00	-173.32	
7HB	K				36.31		1.9088		2.233				2787.41
		0.801	-0.08	0.96		10152.14		9968.47		-0.01	-2.03	9966.43	
APPP	K				36.32		1.9064		2.239				12753.85
		0.382	-0.16	-0.01		14613.88		14349.44		-0.01	-0.97	14348.46	
55002	K				36.34		1.9023		2.244				27102.31
		0.058	-0.02	-0.07		1945.91		1910.69		0.00	0.15	1910.84	
55003	K				36.34		1.9014		2.245				29013.16
		0.107	-0.02	0.16		1224.66		1202.50		0.00	0.00	1202.50	
PP	K				36.34		1.9011		2.244				30215.66
		1.353	-0.28	1.01		27760.08		27257.78		-0.02	-2.85	27254.91	
CA A KARJAA-KROGARS 1980.38													
92	K				35.99		1.9115		2.682				41772.19
		2.772	-0.75	-1.69		-15335.79		-15058.39		0.10	1.13	-15057.16	
93	M				35.94		1.9113		2.687				26715.04
		1.547	-0.11	-0.89		562.69		552.51		0.19	-0.44	552.26	
35020	K				35.93		1.9123		2.696				27267.30
		2.230	1.00	-1.10		8689.60		8532.41		-0.07	0.52	8532.86	
80301	M				35.86		1.9101		2.693				35800.17
		1.694	-0.05	0.83		-1709.47		-1678.55		0.05	-1.19	-1679.69	
35021	M				35.83		1.9102		2.695				34120.48
		2.252	0.07	0.41		11294.08		11089.75		-0.11	-0.26	11089.38	
35022	K				35.76		1.9058		2.690				45209.85
		1.554	-0.02	1.23		2424.34		2380.48		-0.01	1.04	2381.51	
99	M				35.72		1.9037		2.689				47591.36
		2.503	-0.14	1.83		-6079.31		-5969.30		0.03	0.89	-5968.38	
80302	K				35.67		1.9039		2.691				41622.97
		1.625	-0.81	-2.37		-11229.17		-11025.98		0.00	-0.61	-11026.59	
55201	K				35.63		1.9058		2.691				30596.38
		2.402	-0.97	-0.70		-8760.62		-8602.10		0.04	-1.35	-8603.41	
35023	M				35.58		1.9057		2.693				21992.97
		2.309	-0.86	-0.87		-13877.39		-13626.31		0.16	-1.01	-13627.16	
35024	K				35.54		1.9080		2.701				8365.81
		0.904	-0.38	0.27		-3441.06		-3378.81		0.23	0.14	-3378.44	
71004	K				35.56		1.9092		2.713				4987.37
		2.412	0.14	0.80		2307.22		2265.48		-0.02	-0.14	2265.32	
106	M				35.50		1.9083		2.712				7252.69
		2.461	0.31	-1.38		4897.35		4808.75		-0.21	-0.19	4808.35	
107	K				35.42		1.9062		2.701				12061.05
		1.738	0.31	1.70		1821.15		1788.20		0.04	0.27	1788.51	
108	M				35.38		1.9065		2.703				13849.55
		1.792	-0.14	1.93		-1226.69		-1204.50		-0.11	0.46	-1204.15	
109	M				35.33		1.9064		2.697				12645.39
		2.267	0.30	-0.44		8075.76		7929.63		0.04	-0.47	7929.20	
35025	K				35.28		1.9037		2.699				20574.59
		1.905	0.90	0.31		5521.28		5421.36		0.03	-0.35	5421.04	
111	M				35.23		1.9007		2.701				25995.63
		1.590	-0.37	1.30		-5690.01		-5587.02		0.14	-0.77	-5587.65	
55202	M				35.21		1.9009		2.708				20407.99

1	2	3	4	5	6	7	8	9	10	11	12	13	14
55202	M				35.21		1.9009		2.708				20407.99
		1.411	0.20	1.56		546.03		536.14		0.14	0.19	536.47	
80303	K				35.19		1.9013		2.715				20944.45
		2.103	-0.35	0.09		-3768.53		-3700.33		0.07	-0.17	-3700.43	
35027	M				35.15		1.9021		2.719				17244.03
		39.471	-1.72	2.82		-24978.53		-24526.58		0.73	-2.31	-24528.16	

CA B KROGARS-HANKO TIDE GAUGE 1980.64

35027	M				35.15		1.9021		2.719				17244.03
		0.847	-0.33	-0.35		-2064.26		-2026.90		0.02	0.90	-2025.98	
55203	M				35.13		1.9020		2.720				15218.05
		2.235	-0.01	1.78		-1815.59		-1782.73		0.14	-0.92	-1783.51	
116	M				35.09		1.9046		2.727				13434.54
		1.766	0.08	0.81		725.70		712.57		0.11	-0.80	711.88	
55204	M				35.06		1.9058		2.733				14146.42
		2.060	-0.08	0.60		-1705.61		-1674.76		0.12	-0.23	-1674.87	
119	M				35.03		1.9077		2.739				12471.55
		1.788	-0.25	-0.37		-1699.01		-1668.27		0.03	0.04	-1668.20	
55205	K				34.99		1.9072		2.740				10803.34
		2.294	0.20	0.43		263.28		258.52		-0.04	-0.65	257.83	
35028	K				34.93		1.9043		2.738				11061.18
		1.765	-0.35	-0.43		-5947.77		-5840.14		-0.05	0.24	-5839.95	
35029	K				34.88		1.9038		2.736				5221.22
		1.275	-0.10	0.58		-2328.14		-2286.00		-0.06	0.17	-2285.89	
126	K				34.85		1.9029		2.732				2935.34
		14.030	-0.84	3.05		-14571.41		-14307.71		0.27	-1.25	-14308.69	

CB A HANKO TIDE GAUGE-KASKIMAA 1980.40

126	K				34.85		1.9029		2.732				2935.34
		1.231	0.18	0.69		2327.78		2285.66		0.06	0.17	2285.89	
35029	K				34.88		1.9038		2.736				5221.22
		1.748	0.32	-0.35		5947.29		5839.67		0.05	0.23	5839.95	
35028	K				34.93		1.9043		2.738				11061.18
		2.286	-0.06	-1.39		-261.97		-257.23		0.04	-0.64	-257.83	
55205	K				34.99		1.9072		2.740				10803.34
		1.767	0.21	-1.91		1698.95		1668.21		-0.04	0.03	1668.20	
119	M				35.03		1.9077		2.739				12471.55
		2.043	0.18	2.03		1706.08		1675.22		-0.12	-0.23	1674.87	
55204	M				35.06		1.9058		2.733				14146.42
		1.752	-0.07	-0.16		-724.07		-710.97		-0.11	-0.80	-711.88	
116	M				35.09		1.9046		2.727				13434.54
		2.229	0.32	1.11		1817.45		1784.56		-0.14	-0.91	1783.51	
55203	M				35.13		1.9020		2.720				15218.05
		0.858	0.14	0.63		2062.43		2025.10		-0.03	0.91	2025.98	
35027	M				35.15		1.9021		2.719				17244.03
		2.099	0.26	1.90		3768.87		3700.66		-0.07	-0.16	3700.43	
80303	K				35.19		1.9013		2.715				20944.45
		1.390	-0.01	-0.03		-546.40		-536.51		-0.14	0.18	-536.47	
55202	M				35.21		1.9009		2.708				20407.99
		1.581	0.30	0.46		5691.56		5588.55		-0.14	-0.76	5587.65	
111	M				35.23		1.9007		2.701				25995.63
		1.912	-0.29	-0.67		-5520.56		-5420.65		-0.03	-0.36	-5421.04	
35025	K				35.28		1.9037		2.699				20574.59
		2.248	-0.67	0.37		-8074.80		-7928.69		-0.04	-0.47	-7929.20	
109	M				35.33		1.9064		2.697				12645.39
		1.803	0.30	1.64		1225.76		1203.58		0.11	0.46	1204.15	
108	M				35.38		1.9065		2.703				13849.55
		1.776	0.00	0.20		-1821.70		-1788.74		-0.04	0.27	-1788.51	
107	K				35.42		1.9062		2.701				12061.05
		2.443	0.36	1.12		-4896.98		-4808.38		0.21	-0.18	-4808.35	
106	M				35.50		1.9083		2.712				7252.69
		2.387	0.04	1.86		-2306.93		-2265.20		0.02	-0.14	-2265.32	
71004	K				35.56		1.9092		2.713				4987.37

1	2	3	4	5	6	7	8	9	10	11	12	13	14
71004	K				35.56		1.9092		2.713				4987.37
		0.936	0.16	-0.03		3440.77		3378.53		-0.23	0.14	3378.44	
35024	K				35.54		1.9080		2.701				8365.81
		2.282	0.79	0.32		13879.43		13628.31		-0.16	-0.99	13627.16	
35023	M				35.58		1.9057		2.693				21992.97
		2.375	0.51	1.63		8763.34		8604.78		-0.04	-1.33	8603.41	
55201	K				35.63		1.9058		2.691				30596.38
		1.615	0.84	2.16		11230.41		11027.20		0.00	-0.61	11026.59	
80302	K				35.67		1.9039		2.691				41622.97
		2.496	0.35	1.48		6077.50		5967.52		-0.03	0.89	5968.38	
99	M				35.72		1.9037		2.689				47591.36
		1.565	-0.11	-1.14		-2426.47		-2382.56		0.01	1.04	-2381.51	
35022	K				35.76		1.9058		2.690				45209.85
		42.822	4.05	11.92		43057.74		42278.63		-0.86	-3.26	42274.51	

CB B KASKIMAA-KARJAA 1980.62

35022	K				35.76		1.9058		2.690				45209.85
		2.279	-0.95	-0.08		-11293.54		-11089.22		0.11	-0.27	-11089.38	
35021	M				35.83		1.9102		2.695				34120.48
		1.717	0.16	-0.20		1711.91		1680.95		-0.05	-1.21	1679.69	
80301	M				35.86		1.9101		2.693				35800.17
		2.225	-0.60	-0.22		-8690.65		-8533.45		0.07	0.52	-8532.86	
35020	K				35.93		1.9123		2.696				27267.30
		6.221	-1.39	-0.50		-18272.28		-17941.72		0.13	-0.96	-17942.55	

CB C KARJAA 1980.81

35020	K				35.93		1.9123		2.696				27267.30
		1.524	-0.04	-0.76		-563.81		-553.61		-0.19	1.54	-552.26	
93	M				35.94		1.9113		2.687				26715.04
		2.741	0.20	-0.42		15333.47		15056.11		-0.10	1.15	15057.16	
92	K				35.99		1.9115		2.682				41772.19
		4.265	0.16	-1.18		14769.66		14502.50		-0.29	2.69	14504.90	

D A TURKU-TURKU TIDE GAUGE 1981.41

254	K				37.75		1.9480		3.863				17600.51
		2.548	-0.77	1.56		-6061.19		-5951.77		-0.33	-0.09	-5952.19	
37029	K				37.67		1.9466		3.845				11648.32
		2.371	-0.30	-1.36		-1925.90		-1891.13		0.01	0.36	-1890.76	
37021	S				37.61		1.9454		3.846				9757.56
		0.480	0.16	0.14		816.36		801.62		0.04	-0.74	800.92	
37022	K				37.61		1.9454		3.848				10558.47
		0.380	-0.01	0.44		42.84		42.07		0.08	-0.14	42.01	
37023	K				37.61		1.9456		3.852				10600.50
		1.932	-0.58	1.13		-8691.05		-8534.14		-0.06	-0.22	-8534.42	
81104	K				37.58		1.9465		3.849				2066.08
		1.065	-0.32	0.45		-1088.49		-1068.84		0.01	-0.75	-1069.58	
37027	K				37.56		1.9462		3.850				996.51
		1.134	0.23	-1.47		8997.99		8835.53		0.03	-0.02	8835.54	
362	K				37.54		1.9440		3.851				9832.05
		0.202	0.06	-0.06		2770.64		2720.62		0.00	-0.10	2720.52	
363	K				37.53		1.9435		3.851				12552.56
		0.538	-0.16	-0.48		-4723.36		-4638.08		0.06	-0.07	-4638.09	
37026	K				37.53		1.9441		3.854				7914.47
		0.724	-0.08	-0.52		-879.47		-863.59		0.05	0.12	-863.42	
TKP367	K				37.52		1.9445		3.857				7051.04
		0.426	0.03	-0.24		1802.45		1769.91		0.00	0.02	1769.93	
368	K				37.51		1.9442		3.857				8820.97
		0.996	-0.09	-0.26		-2710.40		-2661.46		0.10	-0.60	-2661.96	
37025	K				37.50		1.9451		3.862				6159.01
		1.122	0.11	-0.23		9655.16		9480.83		0.17	0.51	9481.51	
81105	K				37.50		1.9430		3.872				15640.52
		1.292	0.15	0.76		-13786.79		-13537.86		0.20	0.36	-13537.30	
257E	K				37.50		1.9451		3.882				2103.21
		0.016	0.00	0.00		177.13		173.93		0.01	0.00	173.94	
257F	K				37.51		1.9450		3.883				2277.14
		15.226	-1.57	-0.14		-15604.07		-15322.36		0.37	-1.36	-15323.35	

1	2	3	4	5	6	7	8	9	10	11	12	13	14
D B TURKU TIDE GAUGE-TURKU 1981.41													
257F	K				37.51		1.9450		3.883				2277.14
		0.016	0.00	0.15		-177.13		-173.93		-0.01	0.00	-173.94	
257E	K				37.50		1.9451		3.882				2103.21
		1.292	0.32	-0.84		13786.07		13537.15		-0.20	0.35	13537.30	
81105	K				37.50		1.9430		3.872				15640.52
		1.122	-0.30	-0.73		-9656.20		-9481.85		-0.17	0.51	-9481.51	
37025	K				37.50		1.9451		3.862				6159.01
		0.996	0.02	-0.49		2711.62		2662.66		-0.10	-0.60	2661.96	
368	K				37.51		1.9442		3.857				8820.97
		0.426	-0.03	-0.11		-1802.49		-1769.94		0.00	0.01	-1769.93	
TKP367	K				37.52		1.9445		3.857				7051.04
		0.724	0.16	-1.22		879.24		863.36		-0.05	0.11	863.42	
37026	K				37.53		1.9441		3.854				7914.47
		0.538	0.23	-0.43		4723.52		4638.23		-0.06	-0.08	4638.09	
363	K				37.53		1.9435		3.851				12552.56
		0.202	-0.04	-0.22		-2770.44		-2720.41		0.00	-0.11	-2720.52	
362	K				37.54		1.9440		3.851				9832.05
		1.122	-0.19	0.36		-8997.95		-8835.49		-0.03	-0.02	-8835.54	
37027	K				37.56		1.9462		3.850				996.51
		1.061	0.26	-0.72		1090.01		1070.33		-0.01	-0.74	1069.58	
81104	K				37.58		1.9465		3.849				2066.08
		1.925	0.36	-1.34		8691.49		8534.57		0.06	-0.21	8534.42	
37023	K				37.61		1.9456		3.852				10600.50
		0.349	-0.01	0.15		-42.58		-41.81		-0.08	-0.12	-42.01	
37022	K				37.61		1.9454		3.848				10558.47
		0.480	-0.01	0.34		-814.84		-800.13		-0.04	-0.75	-800.92	
37021	S				37.61		1.9454		3.846				9757.56
		2.371	0.31	1.46		1925.17		1890.41		-0.01	0.36	1890.76	
37029	K				37.67		1.9466		3.845				11648.32
		2.548	0.77	1.56		6061.19		5951.77		0.33	0.09	5952.19	
254	K				37.75		1.9480		3.863				17600.51
		15.172	1.85	-2.08		15606.67		15324.92		-0.37	-1.20	15323.35	
E A RAUMA-RAUMA TIDE GAUGE 1981.73													
51226	K				40.55		1.9819		5.198				4618.73
		0.514	-0.05	-0.52		-644.16		-632.55		0.06	0.18	-632.31	
1685	P				40.55		1.9822		5.202				3986.42
		1.536	-0.02	0.58		-807.38		-792.83		0.10	-0.38	-793.11	
81110	K				40.54		1.9845		5.208				3193.30
		1.340	0.00	0.33		-1637.44		-1607.94		0.17	-0.21	-1607.98	
P2	K				40.53		1.9853		5.217				1585.33
		0.064	0.00	0.10		193.86		190.37		-0.01	0.16	190.52	
P1	K				40.53		1.9852		5.216				1775.84
		0.092	0.02	-0.13		856.21		840.78		0.02	-0.14	840.66	
S1	K				40.53		1.9851		5.218				2616.50
		3.546	-0.05	0.36		-2038.91		-2002.17		0.34	-0.39	-2002.22	
E B RAUMA TIDE GAUGE-RAUMA 1981.73													
S1	K				40.53		1.9851		5.218				2616.50
		0.092	-0.02	0.30		-855.92		-840.50		-0.02	-0.14	-840.66	
P1	K				40.53		1.9852		5.216				1775.84
		0.064	0.00	-0.05		-194.18		-190.68		0.01	0.15	-190.52	
P2	K				40.53		1.9853		5.217				1585.33
		1.340	0.15	-0.47		1637.86		1608.36		-0.17	-0.21	1607.98	
81110	K				40.54		1.9845		5.208				3193.30
		1.539	0.02	1.18		808.16		793.60		-0.10	-0.39	793.11	
1685	P				40.55		1.9822		5.202				3986.42
		0.514	0.02	-0.20		643.79		632.19		-0.06	0.18	632.31	
51226	K				40.55		1.9819		5.198				4618.73
		3.549	0.17	0.76		2039.71		2002.97		-0.34	-0.41	2002.22	

1	2	3	4	5	6	7	8	9	10	11	12	13	14
F A RUOSNIEMI - MÄNTYLUOTO TIDE GAUGE 2002.52													
51117	K				42.15		1.9950		5.522				9259.38
		0.138	0.04	-0.11		-4757.03		-4671.39		0.00	-0.29	-4671.68	
87210	K				42.15		1.9956		5.522				4587.70
		0.198	-0.09	0.16		1778.62		1746.59		-0.01	-0.06	1746.52	
87211	K				42.15		1.9954		5.524				6334.22
		0.351	0.01	0.44		-978.48		-960.86		-0.01	0.06	-960.81	
1717	K				42.16		1.9959		5.527				5373.41
		0.575	-0.03	1.15		3252.52		3193.95		-0.01	0.24	3194.18	
PKP353	K				42.16		1.9949		5.532				8567.59
		1.404	0.02	1.75		-5953.27		-5846.06		0.01	0.06	-5845.99	
PK316.2	P				42.12		1.9891		5.527				2721.60
		1.336	-0.04	1.72		846.71		831.46		-0.01	0.08	831.53	
PKP59.2	S				42.10		1.9878		5.532				3553.13
		0.990	-0.06	1.40		-402.64		-395.39		-0.01	0.15	-395.25	
1715.2	P				42.09		1.9868		5.536				3157.87
		0.558	-0.04	1.05		1682.13		1651.83		0.00	0.12	1651.95	
1714B	P				42.08		1.9862		5.535				4809.83
		1.000	-0.02	1.72		-1627.49		-1598.17		-0.02	-0.42	-1598.61	
94	P				42.08		1.9867		5.542				3211.22
		1.593	-0.01	1.59		-680.95		-668.68		-0.03	0.01	-668.70	
1619	R				42.08		1.9827		5.553				2542.53
		1.528	0.05	2.39		-364.77		-358.20		-0.05	-0.71	-358.96	
1620	R				42.13		1.9838		5.572				2183.58
		1.381	-0.03	1.27		3858.84		3789.32		-0.04	-0.19	3789.09	
02201	P				42.16		1.9822		5.588				5972.67
		0.966	0.04	0.73		-2101.57		-2063.71		-0.03	0.03	-2063.71	
88110	R				42.19		1.9811		5.600				3908.96
		2.431	0.02	1.18		-141.27		-138.72		-0.07	0.31	-138.48	
88112	R				42.25		1.9820		5.628				3770.48
		1.683	0.08	1.53		2307.46		2265.88		-0.05	-0.07	2265.76	
1624	M				42.29		1.9819		5.648				6036.24
		1.715	0.20	1.05		-3662.82		-3596.83		-0.05	1.06	-3595.82	
1625	R				42.34		1.9822		5.667				2440.41
		1.293	-0.01	0.79		6070.44		5961.05		-0.04	-0.50	5960.51	
88113	M				42.37		1.9792		5.682				8400.92
		1.393	-0.05	-0.15		-2023.14		-1986.68		-0.04	0.36	-1986.36	
61004	M				42.40		1.9785		5.696				6414.56
		1.409	0.28	1.05		1714.07		1683.18		-0.04	-0.64	1682.50	
1628	R				42.43		1.9791		5.710				8097.06
		2.051	-0.01	1.03		-6268.76		-6155.80		-0.05	-0.84	-6156.69	
424	P				42.48		1.9818		5.732				1940.36
		1.794	0.02	1.72		1120.19		1100.01		-0.05	0.34	1100.30	
1630	P				42.52		1.9815		5.750				3040.66
		2.423	-0.03	1.76		349.51		343.22		-0.03	-0.34	342.85	
M7201	K				42.52		1.9800		5.764				3383.51
		0.052	0.01	0.02		-804.00		-789.51		0.00	-0.02	-789.53	
89110	K				42.52		1.9801		5.764				2593.97
		0.030	-0.01	0.06		1231.58		1209.38		0.00	0.00	1209.38	
761201	K				42.52		1.9799		5.765				3803.35
		28.292	0.34	25.30		-5554.13		-5454.13		-0.63	-1.26	-5456.02	

1	2	3	4	5	6	7	8	9	10	11	12	13	14
					F B MÄNTYLUOTO TIDE GAUGE - RUOSNIEMI 2002.53								
761201	K				42.52		1.9799		5.765				3803.35
		0.030	0.01	0.00		-1231.56		-1209.37		0.00	-0.01	-1209.38	
89110	K				42.52		1.9801		5.764				2593.97
		0.052	-0.01	-0.01		804.05		789.56		0.00	-0.03	789.53	
M7201	K				42.52		1.9800		5.764				3383.51
		2.430	0.16	2.54		-348.81		-342.53		0.03	-0.35	-342.85	
1630	P				42.52		1.9815		5.750				3040.66
		1.794	0.06	1.97		-1120.89		-1100.69		0.05	0.34	-1100.30	
424	P				42.48		1.9818		5.732				1940.36
		2.042	0.04	1.49		6270.47		6157.48		0.05	-0.84	6156.69	
1628	R				42.43		1.9791		5.710				8097.06
		1.408	0.12	-0.02		-1712.77		-1681.90		0.04	-0.64	-1682.50	
61004	M				42.40		1.9785		5.696				6414.56
		1.392	-0.05	1.27		2022.41		1985.96		0.04	0.36	1986.36	
88113	M				42.37		1.9792		5.682				8400.92
		1.287	0.01	1.91		-6069.42		-5960.06		0.04	-0.49	-5960.51	
1625	R				42.34		1.9822		5.667				2440.41
		1.715	-0.25	2.48		3660.68		3594.72		0.05	1.05	3595.82	
1624	M				42.29		1.9819		5.648				6036.24
		1.683	0.09	0.78		-2307.31		-2265.74		0.05	-0.07	-2265.76	
88112	R				42.25		1.9820		5.628				3770.48
		2.425	-0.12	2.47		140.65		138.11		0.07	0.30	138.48	
88110	R				42.19		1.9811		5.600				3908.96
		0.967	-0.02	1.46		2101.50		2063.64		0.03	0.04	2063.71	
02201	P				42.16		1.9822		5.588				5972.67
		1.381	-0.01	0.62		-3858.45		-3788.94		0.04	-0.19	-3789.09	
1620	R				42.13		1.9838		5.572				2183.58
		1.527	0.00	1.88		366.21		359.61		0.05	-0.70	358.96	
1619	R				42.08		1.9827		5.553				2542.53
		1.595	0.08	2.46		680.92		668.65		0.03	0.02	668.70	
94	P				42.08		1.9867		5.542				3211.22
		1.029	0.03	2.97		1627.59		1598.27		0.02	0.32	1598.61	
1714B	P				42.08		1.9862		5.535				4809.83
		0.558	0.06	0.61		-1682.23		-1651.92		0.00	-0.03	-1651.95	
1715.2	P				42.09		1.9868		5.536				3157.87
		0.989	0.08	0.81		402.63		395.38		0.01	-0.14	395.25	
PKP59.2	S				42.10		1.9878		5.532				3553.13
		1.336	0.04	1.29		-846.48		-831.24		0.01	-0.30	-831.53	
PK316.2	P				42.12		1.9891		5.527				2721.60
		1.404	0.01	0.54		5953.56		5846.34		-0.01	-0.34	5845.99	
PKP353	K				42.16		1.9949		5.532				8567.59
		0.575	-0.02	0.91		-3252.76		-3194.19		0.01	0.00	-3194.18	
1717	K				42.16		1.9959		5.527				5373.41
		0.350	0.00	0.48		978.55		960.93		0.01	-0.13	960.81	
87211	K				42.15		1.9954		5.524				6334.22
		0.198	0.01	0.14		-1778.79		-1746.77		0.01	0.24	-1746.52	
87210	K				42.15		1.9956		5.522				4587.70
		0.138	-0.08	0.13		4757.02		4671.38		0.00	0.30	4671.68	
51117	K				42.15		1.9950		5.522				9259.38
		28.305	0.24	29.18		5556.78		5456.68		0.63	-1.29	5456.02	

1	2	3	4	5	6	7	8	9	10	11	12	13	14
G A NÄRPIÖ-KASKINEN TIDE GAUGE 1989.40													
89301	K				46.20		2.0718		6.732				13399.05
		0.013	0.00	0.04		-207.02		-203.30		0.00	0.00	-203.30	
89302	K				46.20		2.0718		6.732				13195.75
		1.860	-0.30	2.24		-4961.73		-4872.78		-0.04	0.05	-4872.77	
52228	K				46.15		2.0723		6.727				8322.98
		1.560	-0.09	-1.40		-134.95		-132.53		-0.12	-0.86	-133.51	
52229	K				46.10		2.0717		6.716				8189.47
		2.174	0.05	-0.29		5840.66		5735.94		-0.12	-0.50	5735.32	
52230	M				46.03		2.0694		6.704				13924.79
		1.760	0.11	0.61		1363.72		1339.27		-0.05	0.09	1339.31	
52231	M				45.98		2.0691		6.699				15264.10
		0.580	-0.05	1.16		1838.71		1805.74		-0.02	-0.36	1805.36	
89303	K				45.96		2.0691		6.697				17069.45
		0.956	-0.02	-0.37		-10424.01		-10237.12		-0.03	-0.59	-10237.74	
52232	K				45.94		2.0720		6.694				6831.70
		0.010	0.00	0.05		299.83		294.45		0.00	0.02	294.47	
89303A	K				45.94		2.0719		6.694				7126.17
		0.628	-0.06	0.52		326.58		320.73		0.02	0.16	320.91	
1778D	K				45.93		2.0718		6.696				7447.08
		1.270	-0.04	-0.18		-1072.72		-1053.49		-0.07	0.66	-1052.90	
52233	M				45.89		2.0714		6.690				6394.18
		1.342	0.62	1.84		-3755.23		-3687.91		-0.05	-0.15	-3688.11	
1778H	K				45.86		2.0725		6.685				2706.08
		0.064	0.02	0.02		2298.64		2257.43		-0.01	0.04	2257.46	
1778F	K				45.85		2.0721		6.685				4963.53
		0.010	0.00	0.25		1251.38		1228.94		0.00	0.02	1228.96	
52234	K				45.85		2.0719		6.684				6192.49
		1.236	-0.14	1.40		-1.60		-1.57		-0.11	0.14	-1.54	
89304	K				45.82		2.0716		6.674				6190.95
		1.246	0.02	-0.11		1155.69		1134.97		-0.10	-0.44	1134.43	
862322	K				45.78		2.0710		6.664				7325.38
		1.166	-0.21	0.95		-3677.55		-3611.62		-0.12	-0.21	-3611.95	
89305	K				45.74		2.0720		6.653				3713.43
		0.860	0.03	0.61		-598.80		-588.07		-0.08	-0.11	-588.26	
862324	K				45.70		2.0717		6.645				3125.17
		0.677	0.00	0.14		576.20		565.87		-0.04	-0.50	565.33	
862325	K				45.68		2.0712		6.641				3690.50
		0.016	0.00	0.12		-289.01		-283.83		0.00	-0.02	-283.85	
89306	K				45.68		2.0713		6.641				3406.65
		0.016	0.00	0.03		-1266.57		-1243.86		0.00	-0.03	-1243.89	
89307	K				45.68		2.0715		6.641				2162.76
		17.444	-0.06	7.63		-11437.76		-11232.73		-0.94	-2.59	-11236.26	
G B KASKINEN TIDE GAUGE-NÄRPIÖ 1989.42													
89307	K				45.68		2.0715		6.641				2162.76
		0.016	0.00	0.00		1266.63		1243.92		0.00	-0.03	1243.89	
89306	K				45.68		2.0713		6.641				3406.65
		0.016	0.00	0.00		289.05		283.87		0.00	-0.02	283.85	
862325	K				45.68		2.0712		6.641				3690.50
		0.674	-0.10	0.47		-575.18		-564.87		0.04	-0.50	-565.33	
862324	K				45.70		2.0717		6.645				3125.17
		0.860	0.01	1.03		599.03		588.29		0.08	-0.11	588.26	
89305	K				45.74		2.0720		6.653				3713.43
		1.166	0.34	0.86		3677.99		3612.05		0.12	-0.22	3611.95	
862322	K				45.78		2.0710		6.664				7325.38
		1.246	-0.10	-0.59		-1154.80		-1134.09		0.10	-0.44	-1134.43	
89304	K				45.82		2.0716		6.674				6190.95
		1.236	-0.12	0.78		1.31		1.29		0.11	0.14	1.54	
52234	K				45.85		2.0719		6.684				6192.49

1	2	3	4	5	6	7	8	9	10	11	12	13	14
52234	K				45.85		2.0719		6.684				6192.49
		0.010	-0.01	0.05		-1251.41		-1228.97		0.00	0.01	-1228.96	
1778F	K				45.85		2.0721		6.685				4963.53
		0.064	-0.02	-0.08		-2298.71		-2257.50		0.01	0.03	-2257.46	
1778H	K				45.86		2.0725		6.685				2706.08
		1.342	-0.29	1.24		3755.55		3688.22		0.05	-0.16	3688.11	
52233	M				45.89		2.0714		6.690				6394.18
		1.270	-0.12	1.14		1071.38		1052.17		0.07	0.66	1052.90	
1778D	K				45.93		2.0718		6.696				7447.08
		0.628	-0.02	0.43		-326.91		-321.05		-0.02	0.16	-320.91	
89303A	K				45.94		2.0719		6.694				7126.17
		0.010	0.00	0.08		-299.87		-294.49		0.00	0.02	-294.47	
52232	K				45.94		2.0720		6.694				6831.70
		0.956	0.03	1.65		10425.21		10238.30		0.03	-0.59	10237.74	
89303	K				45.96		2.0691		6.697				17069.45
		0.580	0.01	1.12		-1837.96		-1805.01		0.02	-0.37	-1805.36	
52231	M				45.98		2.0691		6.699				15264.10
		1.760	0.02	3.16		-1363.91		-1339.45		0.05	0.09	-1339.31	
52230	M				46.03		2.0694		6.704				13924.79
		2.174	-0.10	2.62		-5839.64		-5734.94		0.12	-0.50	-5735.32	
52229	K				46.10		2.0717		6.716				8189.47
		1.560	0.22	1.78		136.70		134.25		0.12	-0.86	133.51	
52228	K				46.15		2.0723		6.727				8322.98
		1.860	0.05	2.41		4961.65		4872.69		0.04	0.04	4872.77	
89302	K				46.20		2.0718		6.732				13195.75
		0.013	0.00	0.04		207.02		203.30		0.00	0.00	203.30	
89301	K				46.20		2.0718		6.732				13399.05
		17.441	-0.20	18.19		11443.11		11237.97		0.94	-2.65	11236.26	

H AA HÖSTVESI-VAASA OLD TIDE GAUGE 1988.64

62036	K				48.69		2.0929		7.173				6991.85
		0.020	0.00	-0.03		270.67		265.82		0.00	0.00	265.82	
88312	K				48.69		2.0928		7.173				7257.67
		1.502	-0.02	-1.52		151.01		148.31		0.14	0.12	148.57	
1134	M				48.70		2.0922		7.185				7406.24
		2.092	-0.23	-1.83		-3859.47		-3790.36		0.22	0.13	-3790.01	
1135	K				48.72		2.0931		7.204				3616.23
		2.290	0.18	-1.72		-116.99		-114.90		0.21	-0.02	-114.71	
51214	K				48.74		2.0905		7.223				3501.52
		1.746	0.25	0.30		2155.07		2116.48		0.20	-0.15	2116.53	
52302	K				48.78		2.0903		7.240				5618.05
		0.808	-0.07	-0.70		-854.98		-839.67		0.09	-0.03	-839.61	
52303	K				48.80		2.0911		7.248				4778.44
		1.130	-0.02	-0.25		999.82		981.91		0.10	-0.36	981.65	
52304	K				48.81		2.0911		7.257				5760.09
		1.614	0.04	0.40		-1311.41		-1287.92		-0.04	1.09	-1286.87	
52305	K				48.77		2.0899		7.253				4473.21
		1.646	-0.07	0.06		-263.80		-259.07		0.10	0.25	-258.72	
88313	K				48.79		2.0903		7.261				4214.49
		0.082	-0.04	-0.25		-2888.21		-2836.49		0.01	0.14	-2836.34	
1139F	K				48.79		2.0909		7.262				1378.14
		12.930	0.02	-5.54		-5718.30		-5615.90		1.03	1.17	-5613.70	

1	2	3	4	5	6	7	8	9	10	11	12	13	14
						H AB VAASA OLD-NEW TIDE GAUGE 2000.76							
1139F	K				48.79		2.0909		7.262				1378.14
		0.089	0.00	0.15		2887.83		2836.11		0.00	0.23	2836.34	
88313	K				48.79		2.0903		7.261				4214.49
		1.074	-0.01	1.65		4512.78		4431.95		0.01	0.11	4432.07	
00005	K				48.76		2.0882		7.254				8646.56
		0.007	0.00	-0.30		435.53		427.72		0.00	0.01	427.73	
00004	K				48.76		2.0881		7.254				9074.29
		1.134	-0.13	1.25		-7718.65		-7580.39		0.00	0.00	-7580.39	
00002	P				48.73		2.0878		7.247				1493.90
		0.078	0.00	-0.15		540.83		531.14		0.00	0.05	531.19	
00003	P				48.73		2.0878		7.248				2025.09
		0.020	0.00	0.03		32.79		32.20		0.00	0.00	32.20	
VAASA5	P				48.73		2.0877		7.248				2057.29
		2.402	-0.14	2.63		691.11		678.73		0.01	0.40	679.14	
						H BA VAASA NEW-OLD TIDE GAUGE 2000.76							
VAASA5	P				48.73		2.0877		7.248				2057.29
		0.020	0.00	-0.08		-32.79		-32.20		0.00	0.00	-32.20	
00003	P				48.73		2.0878		7.248				2025.09
		0.078	0.00	0.00		-540.93		-531.24		0.00	0.05	-531.19	
00002	P				48.73		2.0878		7.247				1493.90
		1.134	0.00	1.12		7718.64		7580.39		0.00	0.00	7580.39	
00004	K				48.76		2.0881		7.254				9074.29
		0.007	0.00	-0.35		-435.55		-427.75		0.00	0.02	-427.73	
00005	K				48.76		2.0882		7.254				8646.56
		1.074	-0.01	0.95		-4513.00		-4432.16		-0.01	0.10	-4432.07	
88313	K				48.79		2.0903		7.261				4214.49
		0.089	0.00	0.17		-2887.99		-2836.27		0.00	-0.07	-2836.34	
1139F	K				48.79		2.0909		7.262				1378.14
		2.402	-0.01	1.81		-691.62		-679.23		-0.01	0.10	-679.14	
						H BB VAASA OLD TIDE GAUGE-HÖSTVESI 1988.66							
1139F	K				48.79		2.0909		7.262				1378.14
		0.076	0.03	-0.08		2888.21		2836.49		-0.01	-0.14	2836.34	
88313	K				48.79		2.0903		7.261				4214.49
		1.646	0.15	-0.98		263.28		258.57		-0.10	0.25	258.72	
52305	K				48.77		2.0899		7.253				4473.21
		1.614	-0.15	-0.75		1309.20		1285.75		0.04	1.08	1286.87	
52304	K				48.81		2.0911		7.257				5760.09
		1.130	0.03	-1.86		-999.08		-981.19		-0.10	-0.36	-981.65	
52303	K				48.80		2.0911		7.248				4778.44
		0.808	0.10	-0.95		855.04		839.73		-0.09	-0.03	839.61	
52302	K				48.78		2.0903		7.240				5618.05
		1.746	-0.08	-2.43		-2154.77		-2116.18		-0.20	-0.15	-2116.53	
51214	K				48.74		2.0905		7.223				3501.52
		2.290	0.07	-0.26		117.04		114.94		-0.21	-0.02	114.71	
1135	K				48.72		2.0931		7.204				3616.23
		2.092	0.09	-0.47		3859.21		3790.10		-0.22	0.13	3790.01	
1134	M				48.70		2.0922		7.185				7406.24
		1.502	-0.02	-1.95		-151.26		-148.55		-0.14	0.12	-148.57	
88312	K				48.69		2.0928		7.173				7257.67
		0.020	0.00	-0.03		-270.67		-265.82		0.00	0.00	-265.82	
62036	K				48.69		2.0929		7.173				6991.85
		12.924	0.22	-9.76		5716.21		5613.85		-1.03	0.88	5613.70	
						I A PÄNNÄINEN-PIETARSAARI TIDE GAUGE 1990.64							
1196	K				50.80		2.1452		7.249				8540.20
		1.512	0.00	1.00		1585.14		1556.84		0.06	0.04	1556.94	
48216	K				50.83		2.1457		7.255				10097.15

1	2	3	4	5	6	7	8	9	10	11	12	13	14
48216	K				50.83		2.1457		7.255				10097.15
		1.930	-0.64	-0.15		-7449.88		-7316.88		0.15	-0.85	-7317.58	
1196B	M				50.90		2.1490		7.271				2779.56
		0.001	0.00	0.28		12.86		12.63		0.00	0.03	12.66	
48217	M				50.90		2.1490		7.271				2792.22
		2.074	-0.06	0.67		652.25		640.61		0.19	-0.69	640.11	
1196C	K				50.96		2.1508		7.291				3432.33
		0.256	0.08	-0.90		1048.29		1029.58		0.01	-0.05	1029.54	
48218	K				50.97		2.1508		7.292				4461.86
		2.181	0.37	0.56		3504.24		3441.70		0.15	-0.81	3441.04	
1196D	M				51.05		2.1515		7.308				7902.91
		0.645	-0.22	0.81		-2718.16		-2669.65		0.05	-0.05	-2669.65	
48220	K				51.07		2.1525		7.313				5233.25
		1.615	0.06	-1.11		1501.70		1474.89		0.14	0.13	1475.16	
1196D2	K				51.11		2.1529		7.328				6708.42
		0.700	-0.06	-0.68		-1576.07		-1547.95		0.03	-0.15	-1548.07	
48221	K				51.14		2.1537		7.331				5160.34
		1.538	0.12	0.33		2186.30		2147.28		0.10	0.38	2147.76	
48222	K				51.19		2.1540		7.342				7308.10
		0.988	-0.03	-0.74		981.25		963.73		0.07	-0.31	963.49	
90220	M				51.22		2.1546		7.349				8271.59
		1.170	-0.09	0.42		-3917.83		-3847.92		0.05	0.11	-3847.76	
48223	K				51.27		2.1561		7.354				4423.81
		0.001	0.00	0.05		-17.18		-16.87		0.00	0.08	-16.79	
1196G	K				51.27		2.1561		7.354				4407.02
		14.611	-0.47	0.54		-4207.09		-4132.00		1.00	-2.14	-4133.14	

I B PIETARSAARI TIDE GAUGE-PÄNNÄINEN 1990.66

1196G	K				51.27		2.1561		7.354				4407.02
		0.001	0.00	-0.10		17.03		16.72		0.00	0.07	16.79	
48223	K				51.27		2.1561		7.354				4423.81
		1.170	0.23	-0.65		3917.61		3847.71		-0.05	0.10	3847.76	
90220	M				51.22		2.1546		7.349				8271.59
		0.990	-0.03	-0.40		-980.60		-963.10		-0.07	-0.32	-963.49	
48222	K				51.19		2.1540		7.342				7308.10
		1.538	-0.07	0.78		-2187.07		-2148.04		-0.10	0.38	-2147.76	
48221	K				51.14		2.1537		7.331				5160.34
		0.700	0.02	1.01		1576.39		1548.26		-0.03	-0.16	1548.07	
1196D2	K				51.11		2.1529		7.328				6708.42
		1.625	0.00	0.58		-1501.96		-1475.15		-0.14	0.13	-1475.16	
48220	K				51.07		2.1525		7.313				5233.25
		0.644	0.22	-0.19		2718.27		2669.75		-0.05	-0.05	2669.65	
1196D	M				51.05		2.1515		7.308				7902.91
		2.182	-0.10	0.32		-3502.59		-3440.07		-0.15	-0.82	-3441.04	
48218	K				50.97		2.1508		7.292				4461.86
		0.256	-0.03	-0.07		-1048.18		-1029.47		-0.01	-0.06	-1029.54	
1196C	K				50.96		2.1508		7.291				3432.33
		2.069	-0.13	-0.21		-650.84		-639.23		-0.19	-0.69	-640.11	
48217	M				50.90		2.1490		7.271				2792.22
		0.001	0.00	-0.03		-12.91		-12.68		0.00	0.02	-12.66	
1196B	M				50.90		2.1490		7.271				2779.56
		1.930	0.61	-0.07		7451.62		7318.59		-0.15	-0.86	7317.58	
48216	K				50.83		2.1457		7.255				10097.15
		1.508	0.00	0.55		-1585.22		-1556.91		-0.06	0.03	-1556.94	
1196	K				50.80		2.1452		7.249				8540.20
		14.614	0.72	1.52		4211.55		4136.37		-1.00	-2.23	4133.14	

J AA TUOMIOJA-RAAHE OLD TIDE GAUGE 1993.43

1291	K				54.67		2.2230		6.795				73666.71
		1.658	-0.40	1.55		-6178.65		-6068.82		0.02	-0.75	-6069.55	
92213	M				54.73		2.2244		6.799				67597.16
		2.731	0.06	-0.79		-9371.87		-9205.28		0.05	0.52	-9204.71	
48206	M				54.82		2.2244		6.806				58392.46

1	2	3	4	5	6	7	8	9	10	11	12	13	14
48206	M				54.82		2.2244		6.806				58392.46
		1.176	-0.20	0.04		-2231.29		-2191.63		0.02	-0.19	-2191.80	
48207	R				54.86		2.2246		6.809				56200.66
		1.409	0.02	0.97		1559.13		1531.41		0.09	0.14	1531.64	
1294A	M				54.87		2.2252		6.823				57732.30
		0.973	-0.01	-0.15		-5.70		-5.60		0.07	0.05	-5.48	
1294B	R				54.88		2.2249		6.833				57726.82
		1.709	0.02	-0.18		1470.67		1444.53		0.12	0.60	1445.25	
1294C	M				54.90		2.2241		6.852				59172.08
		1.535	0.35	-1.49		2718.40		2670.09		0.10	0.16	2670.35	
93201	P				54.91		2.2233		6.868				61842.42
		2.357	-0.01	-0.21		493.70		484.92		0.16	-0.21	484.87	
93202	R				54.94		2.2198		6.892				62327.30
		1.412	0.12	0.44		1470.12		1443.98		0.09	0.08	1444.15	
93203	M				54.95		2.2177		6.906				63771.44
		0.853	0.05	-0.66		643.46		632.02		0.05	0.51	632.58	
1294E	P				54.96		2.2172		6.914				64404.02
		1.599	-0.19	-0.19		-3592.12		-3528.24		0.11	0.31	-3527.82	
93204	M				54.98		2.2172		6.930				60876.20
		3.826	0.25	0.14		-4819.65		-4733.95		0.16	-0.82	-4734.61	
93205	K				54.98		2.2199		6.955				56141.58
		1.616	0.05	-0.68		-1080.03		-1060.83		-0.02	-0.07	-1060.92	
93206	M				55.01		2.2182		6.952				55080.67
		1.963	-0.17	0.89		-7925.81		-7784.89		0.12	-0.19	-7784.96	
93207	M				55.05		2.2207		6.970				47295.71
		1.246	-0.15	0.27		-2355.77		-2313.89		0.07	-0.24	-2314.06	
65084	M				55.08		2.2231		6.980				44981.65
		1.362	-0.89	-0.41		-14635.68		-14375.55		0.08	-0.45	-14375.92	
1294L	M				55.10		2.2283		6.993				30605.73
		1.481	-0.37	-0.13		-6783.25		-6662.71		0.07	0.57	-6662.07	
93209	M				55.13		2.2321		7.004				23943.66
		1.172	-0.25	-0.76		-5089.97		-4999.54		0.06	-0.12	-4999.60	
93208	M				55.15		2.2352		7.013				18944.08
		0.815	-0.32	-0.91		-4911.03		-4823.79		0.04	-0.16	-4823.91	
1294N	M				55.16		2.2369		7.019				14120.17
		1.757	-0.20	-0.79		-6021.91		-5914.96		0.09	-0.13	-5915.00	
1294P	S				55.16		2.2402		7.033				8205.17
		1.353	0.06	0.39		2781.20		2731.80		0.07	0.56	2732.43	
KP1	M				55.17		2.2399		7.043				10937.60
		1.208	-0.01	-0.98		-460.54		-452.36		0.06	0.41	-451.89	
1294R	M				55.17		2.2397		7.053				10485.71
		0.526	0.00	0.22		-144.55		-141.98		0.02	-0.29	-142.25	
KP540	M				55.18		2.2399		7.055				10343.46
		1.533	-0.13	0.97		-3636.29		-3571.72		0.03	0.55	-3571.14	
KP544	M				55.22		2.2419		7.060				6772.33
		1.317	0.05	-0.53		2285.97		2245.37		0.05	0.02	2245.44	
KP599	M				55.25		2.2423		7.067				9017.76
		0.442	-0.31	-0.13		-6308.09		-6196.07		0.01	0.15	-6195.91	
1294X	K				55.24		2.2436		7.069				2821.86
		0.383	-0.01	0.26		-151.89		-149.19		0.00	0.05	-149.14	
1294Ä	K				55.25		2.2436		7.069				2672.72
		1.626	0.10	-0.20		4582.39		4501.02		-0.03	0.10	4501.09	
KP613	M				55.22		2.2424		7.065				7173.81
		0.590	-0.12	0.42		-3819.14		-3751.32		0.02	0.06	-3751.24	
48048	M				55.21		2.2437		7.068				3422.58
		1.542	0.13	0.06		1903.37		1869.57		-0.02	-0.09	1869.46	
1294S	P				55.17		2.2428		7.065				5292.03
		0.761	0.06	-0.21		2389.20		2346.77		0.03	0.46	2347.26	
77302	S				55.16		2.2423		7.069				7639.28
		1.290	0.00	-1.54		216.53		212.69		0.03	0.54	213.26	
KP103	S				55.13		2.2393		7.074				7852.55
		1.083	-0.17	-0.18		-4813.11		-4727.62		0.04	0.29	-4727.29	
KP104	M				55.11		2.2370		7.080				3125.26
		0.325	0.06	-0.21		1052.06		1033.37		0.01	-0.42	1032.96	
KP105	S				55.11		2.2362		7.081				4158.21
		1.561	0.11	-0.49		2034.88		1998.73		0.01	-0.51	1998.23	
81112	M				55.06		2.2329		7.083				6156.44

1	2	3	4	5	6	7	8	9	10	11	12	13	14
81112	M				55.06		2.2329		7.083				6156.44
		0.372	-0.13	0.51		-3770.12		-3703.14		0.01	-0.13	-3703.26	
77301	P				55.06		2.2334		7.085				2453.19
		0.602	0.02	0.55		612.44		601.56		0.00	-0.52	601.04	
93301	P				55.04		2.2327		7.085				3054.23
		0.897	-0.05	0.86		-809.23		-794.86		0.02	-0.30	-795.14	
GPSRAA	M				55.03		2.2313		7.087				2259.09
		0.240	0.06	0.02		1411.96		1386.87		-0.01	-0.08	1386.78	
92408	K				55.02		2.2309		7.086				3645.88
		0.010	-0.01	0.20		-776.16		-762.37		0.00	0.00	-762.37	
92409	K				55.02		2.2311		7.086				2883.51
		50.311	-2.53	-3.06		-72066.37		-70785.59		1.90	0.46	-70783.23	

J AB RAAHE OLD - NEW TIDE GAUGE 1995.78

92409	K				55.02		2.2311		7.086				2883.51
		0.008	0.01	0.35		776.18		762.39		0.00	-0.02	762.37	
92408	K				55.02		2.2309		7.086				3645.88
		1.095	0.00	0.75		-602.07		-591.37		-0.01	-0.27	-591.65	
93301	P				55.04		2.2327		7.085				3054.23
		0.642	-0.02	-0.11		-611.59		-600.72		0.00	-0.32	-601.04	
77301	P				55.06		2.2334		7.085				2453.19
		1.980	0.19	0.11		7860.02		7720.39		0.01	0.55	7720.95	
95402	M				55.11		2.2344		7.086				10174.12
		0.042	-0.02	-0.02		-1714.70		-1684.24		0.00	0.01	-1684.23	
95401	M				55.11		2.2348		7.086				8489.90
		0.690	-0.32	0.87		-6989.92		-6865.74		0.01	0.09	-6865.64	
95403	P				55.10		2.2345		7.090				1624.26
		4.457	-0.16	1.95		-1282.08		-1259.30		0.01	0.04	-1259.25	

J BA RAAHE NEW - OLD TIDE GAUGE 1995.78

95403	P				55.10		2.2345		7.090				1624.26
		0.690	0.50	0.07		6989.73		6865.55		-0.01	0.10	6865.64	
95401	M				55.11		2.2348		7.086				8489.90
		0.042	0.07	0.09		1714.67		1684.21		0.00	0.02	1684.23	
95402	M				55.11		2.2344		7.086				10174.12
		1.980	-0.13	-0.58		-7861.13		-7721.48		-0.01	0.54	-7720.95	
77301	P				55.06		2.2334		7.085				2453.19
		0.642	0.01	-0.46		611.39		600.53		0.00	0.51	601.04	
93301	P				55.04		2.2327		7.085				3054.23
		1.095	0.03	-1.07		602.63		591.93		0.01	-0.29	591.65	
92408	K				55.02		2.2309		7.086				3645.88
		0.008	-0.01	-0.38		-776.12		-762.33		0.00	-0.04	-762.37	
92409	K				55.02		2.2311		7.086				2883.51
		4.457	0.47	-2.33		1281.17		1258.42		-0.01	0.84	1259.25	

J BB RAAHE OLD TIDE GAUGE-TUOMIOJA 1993.42

92409	K				55.02		2.2311		7.086				2883.51
		0.009	0.01	-0.02		776.20		762.40		0.00	-0.03	762.37	
92408	K				55.02		2.2309		7.086				3645.88
		0.241	-0.02	0.32		-1411.79		-1386.71		0.01	-0.08	-1386.78	
GPSRAA	M				55.03		2.2313		7.087				2259.09
		1.352	-0.03	-0.42		810.03		795.64		-0.02	-0.48	795.14	
93301	P				55.04		2.2327		7.085				3054.23
		0.604	-0.05	0.96		-612.18		-601.31		0.00	0.27	-601.04	
77301	P				55.06		2.2334		7.085				2453.19
		0.003	0.00	-0.05		25.30		24.85		0.00	0.00	24.85	
83151	P				55.06		2.2332		7.085				2478.04
		0.332	0.25	-0.06		3745.07		3678.53		-0.01	-0.11	3678.41	
81112	M				55.06		2.2329		7.083				6156.44
		0.667	-0.26	0.40		-2895.89		-2844.44		-0.01	-0.22	-2844.67	
KP107	M				55.08		2.2346		7.082				3311.78

1	2	3	4	5	6	7	8	9	10	11	12	13	14
KP107	M				55.08		2.2346		7.082				3311.78
		0.521	0.01	-0.03		1527.11		1499.98		0.01	-0.17	1499.82	
KP591	M				55.09		2.2349		7.083				4811.59
		0.657	-0.02	0.90		-664.97		-653.16		-0.01	-0.22	-653.39	
KP105	S				55.11		2.2362		7.081				4158.21
		0.324	-0.05	0.47		-1051.20		-1032.53		-0.01	-0.42	-1032.96	
KP104	M				55.11		2.2370		7.080				3125.26
		1.080	0.40	1.33		4812.52		4727.04		-0.04	0.29	4727.29	
KP103	S				55.13		2.2393		7.074				7852.55
		0.649	-0.42	0.14		-3598.14		-3534.24		-0.02	0.27	-3533.99	
KP579	S				55.14		2.2417		7.071				4318.56
		0.646	0.40	0.71		3380.49		3320.46		-0.01	0.27	3320.72	
77302	S				55.16		2.2423		7.069				7639.28
		0.757	-0.09	-0.49		-2390.12		-2347.68		-0.03	0.45	-2347.26	
1294S	P				55.17		2.2428		7.065				5292.03
		0.600	-0.02	0.20		-104.82		-102.95		0.01	-0.03	-102.97	
KP537	M				55.18		2.2433		7.066				5189.06
		1.016	-0.19	1.08		-1798.37		-1766.44		0.01	-0.06	-1766.49	
48048	M				55.21		2.2437		7.068				3422.58
		0.592	0.07	0.95		3819.01		3751.19		-0.02	0.07	3751.24	
KP613	M				55.22		2.2424		7.065				7173.81
		0.870	-0.20	0.16		-4409.76		-4331.45		-0.01	0.06	-4331.40	
KP598	M				55.24		2.2432		7.064				2842.41
		0.995	-0.24	0.16		-21.02		-20.65		0.03	0.06	-20.56	
1294X	K				55.24		2.2436		7.069				2821.86
		0.383	-0.01	-0.04		-151.94		-149.25		0.00	0.11	-149.14	
1294Ä	K				55.25		2.2436		7.069				2672.72
		0.832	0.16	-0.42		6459.48		6344.78		-0.01	0.28	6345.05	
KP599	M				55.25		2.2423		7.067				9017.76
		1.471	0.00	0.21		-2286.01		-2245.41		-0.05	0.02	-2245.44	
KP544	M				55.22		2.2419		7.060				6772.33
		1.094	-0.01	1.43		3110.33		3055.10		-0.02	0.39	3055.47	
KP541	M				55.19		2.2405		7.057				9827.81
		0.426	-0.02	0.35		524.83		515.51		-0.01	0.15	515.65	
KP540	M				55.18		2.2399		7.055				10343.46
		0.519	-0.02	1.33		145.13		142.55		-0.02	-0.28	142.25	
1294R	M				55.17		2.2397		7.053				10485.71
		1.215	0.02	-0.12		459.70		451.54		-0.06	0.41	451.89	
KP1	M				55.17		2.2399		7.043				10937.60
		1.351	-0.08	0.55		-2782.33		-2732.91		-0.07	0.55	-2732.43	
1294P	S				55.16		2.2402		7.033				8205.17
		1.747	0.46	1.21		6022.16		5915.21		-0.09	-0.12	5915.00	
1294N	M				55.16		2.2369		7.019				14120.17
		0.808	0.30	1.61		4911.36		4824.11		-0.04	-0.16	4823.91	
93208	M				55.15		2.2352		7.013				18944.08
		1.169	0.18	-0.72		5090.20		4999.77		-0.06	-0.11	4999.60	
93209	M				55.13		2.2321		7.004				23943.66
		1.481	0.27	0.88		6782.08		6661.57		-0.07	0.57	6662.07	
1294L	M				55.10		2.2283		6.993				30605.73
		1.361	0.59	1.89		14636.59		14376.44		-0.08	-0.44	14375.92	
65084	M				55.08		2.2231		6.980				44981.65
		1.243	0.00	2.20		2356.26		2314.37		-0.07	-0.24	2314.06	
93207	M				55.05		2.2207		6.970				47295.71
		1.954	0.58	1.93		7926.20		7785.27		-0.12	-0.19	7784.96	
93206	M				55.01		2.2182		6.952				55080.67
		1.607	0.17	0.06		1080.17		1060.97		0.02	-0.07	1060.92	
93205	K				54.98		2.2199		6.955				56141.58
		0.714	-0.19	-0.13		-1309.50		-1286.22		-0.01	-0.15	-1286.38	
PR1	M				54.99		2.2184		6.953				54855.20
		3.095	0.16	2.29		6130.84		6021.82		-0.15	-0.66	6021.01	
93204	M				54.98		2.2172		6.930				60876.20
		1.601	0.07	1.46		3591.48		3527.61		-0.11	0.32	3527.82	
1294E	P				54.96		2.2172		6.914				64404.02
		0.851	-0.02	1.26		-644.49		-633.03		-0.05	0.50	-632.58	
93203	M				54.95		2.2177		6.906				63771.44
		1.409	-0.12	0.74		-1470.28		-1444.13		-0.09	0.07	-1444.15	
93202	R				54.94		2.2198		6.892				62327.30

1	2	3	4	5	6	7	8	9	10	11	12	13	14
93202	R				54.94		2.2198		6.892				62327.30
		2.340	-0.01	-0.35		-493.28		-484.51		-0.16	-0.20	-484.87	
93201	P				54.91		2.2233		6.868				61842.42
		1.521	0.00	-0.67		-2718.72		-2670.40		-0.10	0.15	-2670.35	
1294C	M				54.90		2.2241		6.852				59172.08
		1.707	0.03	2.21		-1471.89		-1445.73		-0.12	0.60	-1445.25	
1294B	R				54.88		2.2249		6.833				57726.82
		0.973	0.06	-0.13		5.60		5.50		-0.07	0.05	5.48	
1294A	M				54.87		2.2252		6.823				57732.30
		1.410	-0.15	1.22		-1559.42		-1531.70		-0.09	0.15	-1531.64	
48207	R				54.86		2.2246		6.809				56200.66
		1.158	0.21	1.13		2231.31		2191.65		-0.02	0.17	2191.80	
48206	M				54.82		2.2244		6.806				58392.46
		1.351	-0.21	0.65		6246.71		6135.68		-0.02	-0.11	6135.55	
PR3	P				54.77		2.2248		6.803				64528.01
		1.382	-0.15	0.30		3124.50		3068.97		-0.03	0.22	3069.16	
92213	M				54.73		2.2244		6.799				67597.16
		1.701	0.02	1.04		6179.38		6069.53		-0.03	0.05	6069.55	
1291	K				54.67		2.2230		6.795				73666.71
		51.789	1.84	30.08		72063.94		70783.19		-1.92	1.95	70783.22	

K A OULU-OULU TIDE GAUGE 1994.84

92406	K				56.48		2.2563		6.696				6198.44
		1.031	0.03	-0.29		-2929.66		-2877.68		0.01	-0.11	-2877.78	
92407	K				56.49		2.2571		6.699				3320.66
		2.043	-0.15	0.57		1136.90		1116.73		0.07	0.17	1116.97	
AP0207	S				56.52		2.2567		6.713				4437.63
		1.676	0.09	-0.91		-1779.88		-1748.29		0.06	-0.60	-1748.83	
81114	P				56.56		2.2561		6.724				2688.80
		0.022	0.00	0.25		297.10		291.83		0.00	-0.05	291.78	
81113	P				56.56		2.2561		6.724				2980.57
		0.027	0.00	0.27		-89.79		-88.19		0.00	-0.05	-88.24	
KP116	P				56.56		2.2561		6.724				2892.33
		4.799	-0.03	-0.11		-3365.33		-3305.60		0.14	-0.64	-3306.10	

K B OULU TIDE GAUGE-OULU 1994.85

KP116	P				56.56		2.2561		6.724				2892.33
		0.027	0.00	0.23		89.89		88.29		0.00	-0.05	88.24	
81113	P				56.56		2.2561		6.724				2980.57
		0.022	0.00	0.30		-297.00		-291.73		0.00	-0.05	-291.78	
81114	P				56.56		2.2561		6.724				2688.80
		1.676	0.00	0.26		1780.59		1748.99		-0.06	-0.10	1748.83	
AP0207	S				56.52		2.2567		6.713				4437.63
		2.051	-0.07	0.98		-1137.87		-1117.68		-0.07	0.78	-1116.97	
92407	K				56.49		2.2571		6.699				3320.66
		1.031	-0.04	-0.29		2929.66		2877.68		-0.01	0.11	2877.78	
92406	K				56.48		2.2563		6.696				6198.44
		4.807	-0.11	1.48		3365.27		3305.55		-0.14	0.69	3306.10	

K OULU TIDE GAUGE 2004.62

92406	K				56.48		2.2563		6.696				6198.44
		0.135	0.00	0.06		-650.54		-639.00		0.00	0.04	-638.96	
04010	K				56.49		2.2571		6.696				5559.47
		0.070	0.00	-0.06		79.76		78.35		0.00	0.02	78.37	
01342	K				56.49		2.2572		6.696				5637.85
		1.012	0.01	0.85		5522.98		5424.98		-0.03	0.30	5425.25	
04009	S				56.49		2.2560		6.702				11063.11
		1.591	-0.16	1.89		-5138.60		-5047.42		-0.05	0.48	-5046.99	
04008	S				56.52		2.2564		6.713				6016.12
		1.633	-0.11	0.40		-4647.18		-4564.73		-0.04	0.49	-4564.28	
04007	P				56.55		2.2566		6.722				1451.84

1	2	3	4	5	6	7	8	9	10	11	12	13	14
04007	P				56.55		2.2566		6.722				1451.84
		0.087	0.00	0.22		-1.07		-1.05		0.00	0.03	-1.02	
04006	P				56.55		2.2566		6.722				1450.81
		0.283	-0.01	-0.52		1467.48		1441.44		-0.01	0.08	1441.51	
KP116	P				56.56		2.2561		6.724				2892.33
		4.811	-0.27	2.84		-3367.17		-3307.43		-0.13	1.44	-3306.12	

L A KEMI-KEMI TIDE GAUGE 1996.72

1383	K				59.17		2.2996		6.879				4894.52
		1.406	0.00	0.91		2769.99		2720.96		0.02	-0.55	2720.43	
732322	S				59.14		2.2993		6.886				7614.93
		1.838	0.05	0.87		-3866.94		-3798.49		0.02	-0.12	-3798.59	
96328	K				59.09		2.2991		6.892				3816.34
		0.068	0.00	0.15		182.65		179.42		0.00	-0.05	179.37	
96329	K				59.09		2.2992		6.892				3995.72
		0.212	0.01	-0.54		-140.66		-138.17		0.00	0.04	-138.13	
732324	M				59.08		2.2990		6.892				3857.59
		3.112	0.10	1.15		1633.22		1604.31		0.05	0.41	1604.77	
732326	K				59.00		2.2991		6.907				5462.36
		1.199	0.03	1.01		-2074.55		-2037.82		0.02	-0.42	-2038.22	
KP301	M				58.99		2.2997		6.913				3424.13
		0.714	0.01	0.98		-50.19		-49.30		0.01	-0.30	-49.59	
96330	M				58.98		2.2998		6.917				3374.54
		0.608	-0.03	0.20		-1549.24		-1521.82		0.01	-0.11	-1521.92	
KP304	M				58.99		2.3002		6.920				1852.62
		0.388	0.06	0.11		1819.30		1787.10		0.00	-0.31	1786.79	
KP3122	P				59.00		2.2999		6.920				3639.41
		0.023	0.00	0.05		-29.45		-28.93		0.00	0.05	-28.88	
88004	P				59.00		2.2999		6.920				3610.53
		0.048	-0.01	0.05		-2186.11		-2147.42		0.00	-0.02	-2147.44	
88002	M				59.00		2.3004		6.920				1463.08
		0.053	0.01	0.17		1577.80		1549.87		0.00	0.08	1549.95	
88003	M				59.00		2.3001		6.919				3013.03
		0.134	0.17	0.14		1938.28		1903.98		0.00	-0.01	1903.97	
92405	M				59.00		2.2998		6.919				4917.00
		9.803	0.40	5.25		24.08		23.67		0.13	-1.31	22.49	

L B KEMI TIDE GAUGE-KEMI 1996.74

92405	M				59.00		2.2998		6.919				4917.00
		0.134	-0.06	0.17		-1938.26		-1903.96		0.00	-0.01	-1903.97	
88003	M				59.00		2.3001		6.919				3013.03
		0.053	-0.01	-0.08		-1577.94		-1550.02		0.00	0.07	-1549.95	
88002	M				59.00		2.3004		6.920				1463.08
		0.048	0.02	0.01		2186.17		2147.47		0.00	-0.03	2147.44	
88004	P				59.00		2.2999		6.920				3610.53
		0.023	0.00	0.00		29.35		28.83		0.00	0.05	28.88	
KP3122	P				59.00		2.2999		6.920				3639.41
		0.388	-0.03	0.22		-1818.67		-1786.48		0.00	-0.31	-1786.79	
KP304	M				58.99		2.3002		6.920				1852.62
		0.608	0.10	-0.42		1549.47		1522.04		-0.01	-0.11	1521.92	
96330	M				58.98		2.2998		6.917				3374.54
		0.724	0.06	0.03		50.81		49.91		-0.01	-0.31	49.59	
KP301	M				58.99		2.2997		6.913				3424.13
		1.199	0.03	0.53		2075.40		2038.66		-0.02	-0.42	2038.22	
732326	K				59.00		2.2991		6.907				5462.36
		3.112	-0.31	1.93		-1634.05		-1605.13		-0.05	0.41	-1604.77	
732324	M				59.08		2.2990		6.892				3857.59
		0.212	-0.01	-0.32		140.58		138.09		0.00	0.04	138.13	
96329	K				59.09		2.2992		6.892				3995.72
		0.068	0.00	-0.18		-182.57		-179.33		0.00	-0.04	-179.37	
96328	K				59.09		2.2991		6.892				3816.34
		1.832	-0.02	1.01		3867.18		3798.73		-0.02	-0.12	3798.59	
732322	S				59.14		2.2993		6.886				7614.93

1	2	3	4	5	6	7	8	9	10	11	12	13	14
732322	S				59.14		2.2993		6.886				7614.93
		1.406	0.02	-0.20		-2768.86		-2719.85		-0.02	-0.56	-2720.43	
1383	K				59.17		2.2996		6.879				4894.52
		9.807	-0.21	2.70		-21.37		-21.02		-0.13	-1.34	-22.49	

JOEN JOENSUU LAND UPLIFT/GRAVITY 1986.76

64093	K				45.76		2.0705		2.241				92604.97
		3.838	-0.09	3.39		-481.73		-473.09		0.33	0.00	-472.76	
65362	K				45.88		2.0749		2.267				92132.22
		0.136	0.00	0.63		-135.40		-132.97		0.01	0.00	-132.96	
65363	K				45.88		2.0750		2.267				91999.25
		0.674	-0.04	-0.69		212.75		208.93		0.07	0.00	209.00	
65364	K				45.89		2.0753		2.273				92208.26
		4.648	-0.13	3.33		-404.38		-397.13		0.41	0.00	-396.72	

KOR A KORIA FAULT LINE 1990.79

90002	K				39.37		1.9227		2.345				72152.49
		0.050	-0.02	-0.06		-3808.80		-3739.95		0.00	0.00	-3739.95	
399	K				39.37		1.9234		2.344				68412.54
		0.694	-0.03	0.20		-4286.65		-4209.16		-0.08	0.78	-4208.46	
90003	K				39.35		1.9233		2.336				64204.08
		1.234	-0.05	-0.20		-3737.12		-3669.56		-0.15	1.39	-3668.32	
37059	S				39.33		1.9215		2.320				60535.76
		0.706	0.00	0.71		5172.31		5078.80		-0.03	-0.07	5078.70	
90004	K				39.33		1.9206		2.317				65614.46
		0.812	-0.02	0.27		15580.00		15298.31		0.03	-0.09	15298.25	
90005	K				39.36		1.9180		2.319				80912.71
		1.160	-0.07	1.15		-6751.80		-6629.72		-0.04	-0.12	-6629.88	
90006	K				39.37		1.9194		2.316				74282.84
		2.458	-0.54	-0.64		-16418.68		-16121.84		-0.25	-0.26	-16122.35	
403	K				39.32		1.9220		2.288				58160.49
		1.486	-0.02	1.30		650.19		638.44		0.00	-0.10	638.34	
90007	S				39.35		1.9222		2.289				58798.83
		1.818	-0.03	1.48		-5117.34		-5024.83		-0.06	-0.12	-5025.01	
90008	R				39.38		1.9228		2.282				53773.83
		1.690	-0.03	0.03		9802.74		9625.54		-0.09	-0.11	9625.34	
409	K				39.39		1.9227		2.273				63399.17
		1.858	0.01	1.71		7563.04		7426.32		-0.10	-0.33	7425.89	
80201	K				39.41		1.9209		2.262				70825.05
		0.720	-0.03	0.15		-698.21		-685.59		-0.06	0.00	-685.65	
90009	K				39.40		1.9212		2.256				70139.41
		14.686	-0.83	6.10		-2050.31		-2013.24		-0.83	0.97	-2013.10	

ORA SAVONLINNA-ORAVI LIMNIGRAPH 2004.67

179	K				43.64		2.0511		2.321				89296.24
		0.865	0.04	0.89		2908.14		2855.94		-0.04	0.74	2856.64	
67012	K				43.65		2.0508		2.329				92152.88
		1.556	0.35	0.52		-10024.82		-9844.90		-0.05	0.00	-9844.95	
881407	M				43.69		2.0555		2.338				82307.93
		1.298	0.37	-0.07		8805.09		8647.09		-0.05	0.00	8647.04	
881408	K				43.73		2.0560		2.349				90954.97
		1.318	-0.17	0.37		-3551.72		-3487.99		-0.07	0.00	-3488.06	
652102	M				43.77		2.0586		2.364				87466.91
		0.408	0.07	0.47		7513.06		7378.26		-0.02	0.00	7378.24	
881409	K				43.78		2.0575		2.369				94845.15
		0.855	-0.58	0.65		-17699.56		-17382.02		-0.04	0.00	-17382.06	
881410	M				43.80		2.0619		2.378				77463.10
		2.334	0.25	-0.50		6664.70		6545.15		-0.09	0.00	6545.06	
802711	K				43.88		2.0637		2.398				84008.15
		0.784	-0.02	0.39		-1986.89		-1951.25		-0.04	0.00	-1951.29	
652104	M				43.89		2.0656		2.407				82056.86

1	2	3	4	5	6	7	8	9	10	11	12	13	14
652104	M				43.89		2.0656		2.407				82056.86
		1.539	-0.04	0.40		5466.12		5368.09		-0.09	0.00	5368.00	
04101	M				43.93		2.0677		2.425				87424.87
		1.613	-0.19	-0.48		-1807.59		-1775.18		-0.09	0.00	-1775.27	
04102	M				43.97		2.0691		2.444				85649.60
		1.493	-0.07	0.15		8072.28		7927.54		-0.07	0.00	7927.47	
04103	K				44.02		2.0695		2.460				93577.07
		1.219	-0.37	2.67		-11062.04		-10863.72		-0.07	0.00	-10863.79	
04104	M				44.05		2.0746		2.476				82713.28
		1.007	0.00	2.03		-1140.66		-1120.22		-0.06	0.00	-1120.28	
04105	M				44.07		2.0756		2.489				81593.00
		1.447	0.15	1.06		5106.95		5015.41		-0.09	0.00	5015.32	
667605	M				44.11		2.0753		2.507				86608.32
		0.989	-0.01	1.48		4128.88		4054.87		-0.04	0.00	4054.83	
04107	K				44.15		2.0746		2.517				90663.14
		1.246	0.26	0.41		6978.46		6853.36		-0.07	0.00	6853.29	
667606	M				44.18		2.0732		2.533				97516.43
		1.287	-0.02	0.26		-1090.26		-1070.72		-0.07	0.00	-1070.79	
04106	M				44.20		2.0736		2.549				96445.64
		1.213	0.66	-0.50		15814.76		15531.24		-0.08	0.00	15531.16	
04108	M				44.22		2.0706		2.565				111976.80
		1.250	-0.03	-0.06		1049.21		1030.40		-0.08	0.00	1030.32	
667608	M				44.25		2.0704		2.581				113007.12
		0.822	0.28	0.89		6412.31		6297.33		-0.05	0.00	6297.28	
04109	K				44.28		2.0691		2.592				119304.40
		1.086	-0.17	1.33		-32434.79		-31853.31		-0.06	0.00	-31853.37	
04110	M				44.31		2.0758		2.605				87451.04
		1.326	-0.02	1.11		4666.90		4583.25		-0.07	0.00	4583.18	
04111	M				44.36		2.0762		2.620				92034.22
		1.361	0.08	1.29		18073.56		17749.60		-0.08	0.00	17749.52	
667610	K				44.40		2.0746		2.637				109783.74
		1.216	-0.05	-0.08		-15053.84		-14784.03		-0.06	0.00	-14784.09	
04112	M				44.44		2.0791		2.650				94999.65
		1.317	0.38	1.14		-11215.49		-11014.52		-0.03	0.00	-11014.55	
04113	K				44.48		2.0823		2.656				83985.10
		0.897	-0.27	1.11		24363.47		23926.88		0.01	0.00	23926.89	
667612	M				44.50		2.0781		2.653				107911.99
		1.628	0.19	1.81		2920.01		2867.68		-0.04	0.00	2867.64	
881419	M				44.54		2.0783		2.661				110779.63
		1.040	0.06	0.54		-20592.20		-20223.20		-0.07	0.00	-20223.27	
881420	K				44.56		2.0827		2.676				90556.36
		1.447	0.20	2.19		-13105.28		-12870.49		-0.10	0.00	-12870.59	
652119	K				44.60		2.0859		2.697				77685.76
		0.987	0.02	0.24		2864.28		2812.97		-0.06	0.00	2812.91	
881421	K				44.62		2.0859		2.710				80498.67
		0.980	-0.19	0.81		2826.12		2775.49		-0.06	0.00	2775.43	
652120	K				44.64		2.0859		2.722				83274.10
		1.553	0.37	-0.80		12594.92		12369.28		-0.11	0.00	12369.17	
881422	K				44.68		2.0841		2.745				95643.27
		0.623	0.23	0.85		-11372.53		-11168.80		-0.04	0.00	-11168.84	
652121	M				44.69		2.0866		2.753				84474.43
		1.327	-0.12	0.80		10708.35		10516.52		-0.09	0.00	10516.43	
04114	K				44.71		2.0851		2.772				94990.86
		0.055	0.01	0.03		-552.00		-542.12		0.00	0.00	-542.12	
881423	K				44.71		2.0853		2.772				94448.74
		0.314	0.24	0.09		-16585.45		-16288.35		-0.01	0.00	-16288.36	
04115	S				44.71		2.0886		2.776				78160.38
		0.114	0.01	0.35		-1030.69		-1012.23		0.00	0.00	-1012.23	
04116	M				44.71		2.0888		2.775				77148.15
		0.021	0.00	0.13		-401.97		-394.77		0.00	0.00	-394.77	
ORAVI	P				44.71		2.0888		2.775				76753.38
		41.835	1.90	23.97		-12770.23		-12541.47		-2.13	0.74	-12542.86	

1	2	3	4	5	6	7	8	9	10	11	12	13	14
P1.1 A MYNÄMÄKI-KUSTAVI 2003.67													
51008	K				38.52		1.9358		4.247				29604.56
		1.698	-0.07	-1.26		-18185.80		-17857.31		-0.09	0.49	-17856.91	
1649	M				38.58		1.9379		4.271				11747.65
		0.963	0.00	-0.19		4473.98		4393.17		-0.04	0.00	4393.13	
03311	K				38.59		1.9370		4.281				16140.78
		0.855	-0.03	0.41		-629.17		-617.80		-0.04	0.00	-617.84	
03312	K				38.60		1.9373		4.293				15522.94
		1.419	-0.06	-0.19		-1908.65		-1874.17		-0.03	0.00	-1874.20	
622511	K				38.59		1.9373		4.302				13648.74
		1.760	-0.06	-0.90		-1028.30		-1009.73		-0.02	0.00	-1009.75	
622512	K				38.57		1.9377		4.308				12639.00
		1.725	0.06	-1.07		-2151.53		-2112.67		-0.06	0.00	-2112.73	
03313	K				38.57		1.9370		4.326				10526.27
		1.643	-0.03	0.87		-2824.99		-2773.96		0.06	0.00	-2773.90	
03314	K				38.52		1.9362		4.308				7752.37
		1.172	0.09	0.55		1320.08		1296.23		-0.01	0.00	1296.22	
66117	K				38.50		1.9362		4.312				9048.59
		1.785	-0.02	2.59		-4970.74		-4880.95		0.00	0.00	-4880.95	
66118	M				38.47		1.9367		4.313				4167.64
		1.863	0.15	0.32		7116.15		6987.60		-0.07	0.00	6987.53	
66119	M				38.47		1.9345		4.331				11155.17
		0.303	0.19	-0.10		5097.95		5005.85		-0.01	0.00	5005.84	
03315	K				38.47		1.9333		4.333				16161.01
		0.970	-0.05	0.47		-2501.05		-2455.86		-0.03	0.00	-2455.89	
871134	M				38.46		1.9329		4.340				13705.12
		1.391	0.00	-0.73		-3358.84		-3298.16		-0.03	0.00	-3298.19	
871135	M				38.44		1.9323		4.347				10406.93
		0.893	0.03	0.60		4985.26		4895.19		0.00	0.00	4895.19	
66121	K				38.42		1.9311		4.348				15302.12
		1.571	-0.13	-1.19		1613.68		1584.53		0.02	0.00	1584.55	
871136	K				38.38		1.9307		4.343				16886.66
		1.350	0.16	0.70		2937.04		2883.97		0.01	0.00	2883.98	
03316	K				38.34		1.9308		4.339				19770.64
		1.457	-0.09	0.12		-13750.99		-13502.53		0.00	0.00	-13502.53	
871137	K				38.31		1.9325		4.341				6268.11
		0.638	-0.06	0.17		6006.73		5898.20		-0.01	0.00	5898.19	
72021	K				38.30		1.9312		4.344				12166.30
		1.013	-0.08	0.07		-3173.87		-3116.52		-0.01	0.00	-3116.53	
03317	K				38.29		1.9317		4.347				9049.76
		0.827	-0.17	0.77		-5673.25		-5570.75		-0.01	0.00	-5570.76	
66125	K				38.28		1.9327		4.351				3479.01
		0.011	0.01	0.05		-693.34		-680.82		0.00	0.00	-680.82	
72022	K				38.28		1.9329		4.351				2798.18
		1.231	-0.07	-0.79		3519.91		3456.31		0.03	0.00	3456.34	
72023	K				38.23		1.9314		4.342				6254.53
		1.725	-0.18	-0.86		475.71		467.12		0.05	0.00	467.17	
72024	K				38.18		1.9307		4.330				6721.69
		0.916	0.03	0.05		1827.29		1794.27		0.03	0.00	1794.30	
03318	K				38.14		1.9303		4.323				8516.00
		2.395	-0.18	-0.26		1207.63		1185.81		-0.01	0.00	1185.80	
66129	K				38.10		1.9298		4.324				9701.79
		0.842	0.04	-0.25		-2223.20		-2183.03		-0.03	0.00	-2183.06	
03319	K				38.10		1.9300		4.333				7518.73
		1.895	0.27	-1.20		2858.40		2806.75		-0.08	0.00	2806.67	
03320	K				38.11		1.9288		4.354				10325.40
		0.980	-0.26	0.23		-7079.15		-6951.22		-0.01	0.00	-6951.23	
03321	K				38.10		1.9299		4.356				3374.17
		1.177	0.05	-1.12		1939.20		1904.16		-0.01	0.00	1904.15	
03322	K				38.08		1.9294		4.360				5278.31
		1.207	0.17	-0.22		-3346.19		-3285.72		0.04	0.00	-3285.68	
63108	K				38.03		1.9299		4.347				1992.64
		0.798	-0.18	-1.34		5239.42		5144.74		0.01	0.00	5144.75	
AP199	K				38.01		1.9288		4.345				7137.39
		0.332	0.03	-0.33		-4490.59		-4409.45		0.00	0.00	-4409.45	
63109	K				38.02		1.9297		4.346				2727.94

1	2	3	4	5	6	7	8	9	10	11	12	13	14
63109	K				38.02		1.9297		4.346				2727.94
		1.462	0.05	-0.49		694.11		681.56		-0.01	0.00	681.55	
03323	K				38.00		1.9294		4.348				3409.48
		0.953	0.29	0.05		-624.48		-613.19		-0.01	0.00	-613.20	
03324	K				37.98		1.9295		4.352				2796.29
		0.991	0.05	-0.06		12501.23		12275.31		-0.03	0.00	12275.28	
66134	K				37.98		1.9268		4.359				15071.56
		0.853	0.01	-0.40		-8393.99		-8242.29		-0.04	0.00	-8242.33	
03325	K				37.98		1.9280		4.369				6829.24
		0.989	0.11	-0.28		-291.47		-286.21		-0.05	0.00	-286.26	
66135	K				38.00		1.9277		4.383				6542.97
		1.029	-0.14	0.47		-2661.26		-2613.16		-0.06	0.00	-2613.22	
03326	K				38.02		1.9284		4.398				3929.75
		0.715	0.04	0.06		6250.60		6137.64		-0.04	0.00	6137.60	
66136	K				38.03		1.9273		4.408				10067.36
		1.102	0.05	0.07		-1288.22		-1264.93		-0.03	0.00	-1264.96	
03327	K				38.02		1.9271		4.416				8802.39
		0.856	-0.05	-0.14		-1352.44		-1327.99		-0.04	0.00	-1328.03	
03328	K				38.03		1.9271		4.426				7474.36
		0.728	-0.01	-0.14		-423.10		-415.45		0.00	0.00	-415.45	
03329	K				38.01		1.9269		4.427				7058.92
		1.102	-0.01	-0.75		-402.60		-395.32		-0.02	0.00	-395.34	
03330	K				38.00		1.9268		4.432				6663.58
		49.585	-0.05	-5.64		-23362.85		-22940.79		-0.68	0.49	-22940.98	

P1.1 WATER CROSSING 2004.70

03330	K				38.00		1.9268		4.432				6663.58
		0.390	0.00			-6128.97		-6018.21		-0.01	0.00	-6018.22	
63111	M				38.00		1.9278		4.434				645.36
		0.390	0.00	0.00		-6128.97		-6018.21		-0.01	0.00	-6018.22	

P1.1 PIKKU PIRISHOLMI 2004.70

63111	M				38.00		1.9278		4.434				645.36
		0.019	0.00			631.11		619.70		0.00	0.00	619.70	
03337	M				38.00		1.9277		4.434				1265.06
		0.019	0.00	0.00		631.11		619.70		0.00	0.00	619.70	

P1.1 C PIKKU PIRISHOLMI 2003.74

03337	M				38.00		1.9277		4.434				1265.06
		0.399	0.01	-0.24		-94.10		-92.40		0.00	0.00	-92.40	
03338	K				37.99		1.9275		4.433				1172.66
		0.399	0.01	-0.24		-94.10		-92.40		0.00	0.00	-92.40	

P1.1 WATER CROSSING 2004.70

03338	K				37.99		1.9275		4.433				1172.66
		0.250	0.00			640.23		628.66		-0.01	0.00	628.65	
03339	K				37.99		1.9273		4.435				1801.31
		0.250	0.00	0.00		640.23		628.66		-0.01	0.00	628.65	

P1.1 E POHJAMETSÄ-OSNÄS 2003.72

03339	K				37.99		1.9273		4.435				1801.31
		0.255	-0.05	-0.18		9936.01		9756.43		-0.01	0.00	9756.42	
03331	K				37.99		1.9254		4.438				11557.73
		0.927	0.02	-0.06		-5958.36		-5850.67		0.04	0.00	-5850.63	
03332	K				37.96		1.9261		4.427				5707.10
		1.023	-0.08	0.29		15745.95		15461.34		0.03	0.00	15461.37	
66139	K				37.93		1.9229		4.420				21168.47

1	2	3	4	5	6	7	8	9	10	11	12	13	14
66139	K				37.93		1.9229		4.420				21168.47
		0.787	0.02	0.17		-5036.10		-4945.06		0.03	0.00	-4945.03	
03333	K				37.90		1.9237		4.411				16223.44
		0.753	0.06	-0.42		-10279.75		-10093.94		0.03	0.00	-10093.91	
03M6157	K				37.87		1.9255		4.402				6129.53
		0.826	-0.02	0.16		794.39		780.03		-0.01	0.00	780.02	
03334	K				37.87		1.9253		4.405				6909.54
		0.950	0.10	0.57		1009.43		991.19		-0.05	0.00	991.14	
66141	K				37.88		1.9250		4.418				7900.68
		1.375	0.04	-0.04		299.19		293.78		-0.04	0.00	293.74	
66142	K				37.88		1.9243		4.429				8194.42
		0.859	-0.04	0.01		-1178.02		-1156.73		0.01	0.00	-1156.72	
03335	K				37.86		1.9237		4.427				7037.70
		0.163	0.05	-0.02		4769.14		4682.93		0.00	0.00	4682.93	
03M6158	K				37.86		1.9227		4.427				11720.63
		0.340	0.01	-0.07		-860.01		-844.46		-0.02	0.00	-844.48	
03336	K				37.86		1.9229		4.431				10876.16
		0.018	0.04	-0.02		-4085.95		-4012.09		0.00	0.00	-4012.09	
63115	K				37.86		1.9237		4.431				6864.07
		8.276	0.15	0.39		5155.92		5062.75		0.01	0.00	5062.76	

CONNECTION USING THE SECOND LEVELLING 1966.39

63115	K				37.86		1.9237		4.431				6864.07
		101.6	0.00			-692.05		-679.70		-2.77	0.00	-682.47	
62138	K				36.56		1.8818		4.349				6181.60
		101.600	0.00	0.00		-692.05		-679.70		-2.77	0.00	-682.47	

P1.2 A VÅRDÖ-TÖFTÖ 2004.77

04225	K				36.76		1.8893		4.366				4578.40
		0.154	-0.01	0.01		-274.97		-269.99		-0.01	0.00	-270.00	
66107	K				36.76		1.8893		4.367				4308.40
		1.480	-0.02	0.12		9133.31		8967.89		0.02	0.00	8967.91	
66105	K				36.73		1.8871		4.362				13276.31
		2.943	-0.11	-0.79		-12719.37		-12489.00		0.11	0.00	-12488.89	
65115	K				36.63		1.8871		4.339				787.43
		0.822	0.26	0.02		15.31		15.04		0.00	0.00	15.04	
65118	K				36.62		1.8868		4.339				802.47
		1.682	-0.03	-0.85		10307.94		10121.21		0.05	0.00	10121.26	
04224	K				36.57		1.8823		4.328				10923.73
		1.831	-0.20	-0.67		-10303.04		-10116.38		0.01	0.00	-10116.37	
65119	K				36.53		1.8826		4.327				807.36
		0.036	-0.01	0.34		520.46		511.03		0.00	0.00	511.03	
AHV6	K				36.53		1.8825		4.327				1318.39
		8.948	-0.12	-1.82		-3320.36		-3260.20		0.18	0.00	-3260.02	

P1.2 WATER CROSSING 2004.70

AHV6	K				36.53		1.8825		4.327				1318.39
		0.450	0.00			341.67		335.48		-0.03	0.00	335.45	
AHV7	P				36.55		1.8826		4.333				1653.83
		0.450	0.00	0.00		341.67		335.48		-0.03	0.00	335.45	

P1.2 C PRÄSTÖ-BOMARSUND 2004.73

AHV7	P				36.55		1.8826		4.333				1653.83
		0.075	0.02	-0.03		-820.42		-805.56		0.00	0.00	-805.56	
65120	K				36.54		1.8827		4.332				848.28
		1.864	0.05	-1.04		5431.81		5333.40		-0.08	0.00	5333.32	
62138	K				36.56		1.8818		4.349				6181.60

1	2	3	4	5	6	7	8	9	10	11	12	13	14
62138	K				36.56		1.8818		4.349				6181.60
		0.018	0.01	0.13		-1268.55		-1245.56		0.00	0.00	-1245.56	
62139	K				36.56		1.8820		4.349				4936.04
		1.957	0.08	-0.94		3342.85		3282.29		-0.08	0.00	3282.21	

P1.2 D BOMARSUND-GÖLBY 2004.65

62139	K				36.56		1.8820		4.349				4936.04
		0.018	-0.01	-0.12		1268.55		1245.56		0.00	0.00	1245.56	
62138	K				36.56		1.8818		4.349				6181.60
		1.251	0.07	0.24		19377.59		19026.47		-0.05	0.00	19026.42	
04201	K				36.56		1.8786		4.359				25208.02
		1.314	0.04	0.03		-14028.95		-13774.75		-0.07	0.00	-13774.82	
04202	K				36.58		1.8819		4.374				11433.20
		0.857	0.03	0.18		-5303.40		-5207.32		-0.04	0.00	-5207.36	
62136	K				36.60		1.8833		4.384				6225.83
		1.342	-0.13	0.32		14239.86		13981.87		-0.06	0.00	13981.81	
62135	K				36.61		1.8812		4.397				20207.64
		1.399	-0.11	0.58		8150.55		8002.86		-0.03	0.00	8002.83	
62134	K				36.61		1.8797		4.404				28210.47
		1.293	0.24	1.62		15843.81		15556.69		-0.03	0.00	15556.66	
04203	K				36.60		1.8763		4.409				43767.12
		1.717	0.25	-0.33		-20950.64		-20570.98		-0.07	0.00	-20571.05	
62132	K				36.61		1.8806		4.423				23196.07
		1.140	0.19	0.77		-12383.76		-12159.40		-0.06	0.00	-12159.46	
62131	K				36.65		1.8841		4.437				11036.62
		1.775	0.06	0.21		6676.16		6555.21		-0.09	0.00	6555.12	
04204	K				36.68		1.8838		4.457				17591.74
		1.553	0.39	0.15		4110.36		4035.89		-0.08	0.00	4035.81	
62129	K				36.71		1.8829		4.475				21627.55
		1.711	-0.10	0.51		-14467.30		-14205.21		0.00	0.00	-14205.21	
04205	K				36.68		1.8841		4.475				7422.34
		0.435	0.01	0.29		13357.15		13115.16		0.00	0.00	13115.16	
62127	K				36.67		1.8812		4.474				20537.50
		0.916	-0.04	0.45		4520.39		4438.48		0.00	0.00	4438.48	
62126	K				36.66		1.8803		4.475				24975.97
		1.904	-0.02	-0.02		3198.57		3140.61		0.04	0.00	3140.65	
62125	K				36.61		1.8778		4.465				28116.63
		1.706	0.04	-0.58		-13195.32		-12956.19		0.04	0.00	-12956.15	
04206	K				36.56		1.8786		4.457				15160.47
		2.244	-0.05	-0.13		4492.75		4411.33		0.08	0.00	4411.41	
62123	K				36.48		1.8751		4.440				19571.88
		22.575	0.86	4.17		14906.36		14636.26		-0.42	0.00	14635.84	

P2 GÖLBY-ECKERÖ 2004.70

62123	K				36.48		1.8751		4.440				19571.88
		0.021	0.00	-0.02		-1040.69		-1021.83		0.00	0.00	-1021.83	
62122	K				36.48		1.8753		4.440				18550.05
		0.599	-0.10	-0.36		-12662.21		-12432.73		-0.03	0.00	-12432.76	
62121	K				36.49		1.8781		4.446				6117.29
		3.657	-0.08	-0.08		8243.90		8094.51		-0.18	0.00	8094.33	
62119	K				36.56		1.8778		4.486				14211.61
		1.280	-0.06	-0.33		-6212.09		-6099.51		-0.04	0.00	-6099.55	
04207	K				36.56		1.8784		4.495				8112.06
		1.579	0.02	-0.32		-659.45		-647.50		0.01	0.00	-647.49	
62117	M				36.53		1.8770		4.493				7464.57
		2.153	0.01	-0.27		3685.92		3619.12		0.02	0.00	3619.14	
04208	K				36.49		1.8743		4.488				11083.71
		1.537	0.17	1.22		10023.81		9842.11		-0.04	0.00	9842.07	
04209	K				36.48		1.8717		4.496				20925.78
		3.415	0.33	-1.22		-1095.77		-1075.90		-0.20	0.00	-1076.10	
62113	M				36.58		1.8745		4.538				19849.68
		1.601	0.16	-1.20		7965.35		7820.97		-0.06	0.00	7820.91	
62112	K				36.58		1.8731		4.550				27670.59

1	2	3	4	5	6	7	8	9	10	11	12	13	14
62112	K				36.58		1.8731		4.550				27670.59
		2.327	-0.01	0.03		-27223.14		-26729.76		-0.12	0.00	-26729.88	
62111	K				36.64		1.8797		4.576				940.71
		1.520	0.06	0.17		-213.81		-209.93		0.06	0.00	-209.87	
62110	K				36.58		1.8780		4.563				730.84
		1.628	-0.14	0.60		21712.38		21318.86		-0.01	0.00	21318.85	
04210	K				36.57		1.8727		4.566				22049.69
		1.732	-0.14	0.24		-15016.48		-14744.29		-0.04	0.00	-14744.33	
04211	K				36.56		1.8752		4.575				7305.36
		1.279	-0.06	0.24		6852.10		6727.90		-0.06	0.00	6727.84	
04212	K				36.59		1.8743		4.588				14033.19
		1.410	-0.07	-0.31		-1895.71		-1861.35		-0.08	0.00	-1861.43	
04213	K				36.63		1.8754		4.605				12171.76
		1.444	0.20	-0.42		9035.45		8871.68		-0.01	0.00	8871.67	
62104	M				36.61		1.8727		4.607				21043.43
		1.816	0.18	-0.25		-18134.51		-17805.83		-0.10	0.00	-17805.93	
04214	K				36.66		1.8782		4.629				3237.51
		0.611	-0.03	-0.36		-210.14		-206.34		-0.03	0.00	-206.37	
62101	K				36.68		1.8789		4.636				3031.14
		0.022	0.00	0.07		407.24		399.86		0.00	0.00	399.86	
62102	K				36.68		1.8788		4.636				3431.00
		1.475	-0.16	0.36		963.22		945.77		-0.07	0.00	945.70	
72101	K				36.72		1.8796		4.652				4376.70
		0.966	0.04	0.22		-3710.97		-3643.73		-0.04	0.00	-3643.77	
67116	K				36.74		1.8809		4.660				732.93
		0.128	0.02	0.16		339.50		333.35		-0.01	0.00	333.34	
04216	K				36.74		1.8810		4.661				1066.27
		32.200	0.34	-1.83		-18846.09		-18504.58		-1.03	0.00	-18505.61	

CONNECTION USING THE SECOND LEVELLING 1971.12

67116	K				36.74		1.8809		4.660				732.93
		7.537	0.00			1886.04		1851.90		4.82	0.00	1856.72	
SF88	K				36.95		1.8831		4.826				2589.65
		7.537	0.00	0.00		1886.04		1851.90		4.82	0.00	1856.72	

P3 GÖLBY-SVINÖ 2004.75

62123	K				36.48		1.8751		4.440				19571.88
		2.147	-0.05	0.19		2655.86		2607.72		0.13	0.00	2607.85	
63201	K				36.41		1.8722		4.414				22179.72
		2.098	0.00	-0.88		11472.39		11264.39		0.12	0.00	11264.51	
63202	M				36.32		1.8669		4.388				33444.24
		2.293	-0.06	-1.12		-14387.63		-14126.75		0.13	0.00	-14126.62	
04215	K				36.27		1.8685		4.361				19317.62
		1.515	0.24	-1.08		33207.10		32604.89		0.10	0.00	32604.99	
63204	K				36.22		1.8615		4.341				51922.61
		2.108	0.12	-0.63		-25665.23		-25199.75		0.13	0.00	-25199.62	
63205	K				36.17		1.8649		4.314				26722.99
		1.365	0.10	-0.71		-8965.57		-8802.98		0.07	0.00	-8802.91	
63206	K				36.12		1.8655		4.298				17920.08
		1.624	-0.13	0.26		-13877.59		-13625.93		0.10	0.00	-13625.83	
63207	M				36.06		1.8665		4.277				4294.25
		2.012	-0.14	-0.69		14440.81		14178.92		0.13	0.00	14179.05	
75414	K				36.00		1.8624		4.249				18473.29
		1.122	0.08	-0.80		-1541.48		-1513.52		0.07	0.00	-1513.45	
04217	K				35.95		1.8618		4.234				16959.85
		0.071	0.00	0.29		120.91		118.71		0.00	0.00	118.71	
75413	K				35.95		1.8617		4.233				17078.56
		1.990	0.14	0.07		-11430.70		-11223.39		0.11	0.00	-11223.28	
04219	K				35.91		1.8639		4.211				5855.29
		1.592	0.25	0.40		4343.40		4264.63		0.02	0.00	4264.65	
75410	K				35.93		1.8636		4.206				10119.94
		1.170	-0.55	1.44		19821.79		19462.26		0.04	0.00	19462.30	
04218	K				35.93		1.8602		4.198				29582.24

1	2	3	4	5	6	7	8	9	10	11	12	13	14
04218	K				35.93		1.8602		4.198				29582.24
		1.290	-0.04	-0.31		-1630.31		-1600.74		0.02	0.00	-1600.72	
75408	M				35.95		1.8613		4.195				27981.52
		2.381	0.30	0.23		-17216.59		-16904.34		0.07	0.00	-16904.27	
04220	K				35.96		1.8659		4.181				11077.25
		1.591	0.05	1.30		1841.07		1807.69		0.04	0.00	1807.73	
75405	K				35.97		1.8660		4.172				12884.98
		0.018	0.01	-0.14		-927.78		-910.95		0.00	0.00	-910.95	
04222	K				35.97		1.8662		4.172				11974.03
		1.174	-0.15	-0.84		-5246.30		-5151.16		0.03	0.00	-5151.13	
75404	K				35.98		1.8676		4.167				6822.90
		0.067	-0.03	-0.04		2933.52		2880.33		-0.01	0.00	2880.32	
04223	K				35.98		1.8671		4.168				9703.22
		2.589	0.09	-0.54		-5523.61		-5423.45		0.04	0.00	-5423.41	
75402	K				36.01		1.8688		4.159				4279.82
		0.853	-0.10	-0.04		8294.07		8143.68		0.05	0.00	8143.73	
75401	K				35.98		1.8666		4.148				12423.55
	.	0.577	-0.03	-0.64		-5632.40		-5530.28		0.03	0.00	-5530.25	
04221	K				35.96		1.8674		4.142				6893.30
		31.647	0.16	-3.00		-12914.27		-12680.00		1.42	0.00	-12678.58	

CONNECTION USING THE SECOND LEVELLING 1975.40

75401	K				35.98		1.8666		4.148				12423.55
		13.587	0.008			-10207.5		-10022.62		-3.10	0.00	-10025.72	
75400	K				35.77		1.8723		4.022				2397.83
		13.587	0.00	0.00		-10207.58		-10022.62		-3.10	0.00	-10025.72	

R1 MUONIO-PALOJOENSUU 1999.70

99107	K				67.41		2.4125		5.083				244069.24
		1.677	0.16	1.08		-14490.94		-14236.11		0.00	-0.30	-14236.41	
56121	M				67.43		2.4167		5.072				229832.84
		2.296	-0.12	-1.00		18951.15		18617.91		-0.01	-0.41	18617.49	
56122	M				67.50		2.4149		5.043				248450.32
		1.712	-0.13	-0.13		6130.56		6022.75		0.00	-0.31	6022.44	
99118	K				67.53		2.4139		5.028				254472.76
		1.410	0.38	0.62		-21842.89		-21458.82		-0.01	-0.25	-21459.08	
99119	K				67.57		2.4192		5.010				233013.68
		1.027	-0.11	0.42		9211.58		9049.63		0.00	-0.19	9049.44	
99120	K				67.60		2.4190		4.999				242063.11
		1.016	-0.16	0.37		12680.77		12457.83		0.00	-0.18	12457.65	
99121	K				67.62		2.4177		4.988				254520.76
		0.994	0.21	-0.14		-20213.51		-19858.16		0.00	-0.18	-19858.34	
99122	K				67.65		2.4228		4.976				234662.41
		1.287	-0.10	0.94		737.31		724.35		0.00	-0.23	724.12	
56126	K				67.64		2.4233		4.978				235386.54
		1.888	-0.02	2.69		3080.67		3026.52		0.00	-0.34	3026.18	
56128	M				67.63		2.4232		4.985				238412.70
		1.414	0.04	0.39		1834.27		1802.03		0.00	-0.26	1801.77	
56129	M				67.65		2.4241		4.976				240214.49
		1.483	-0.13	1.85		8556.53		8406.15		0.00	-0.27	8405.88	
99123	M				67.68		2.4247		4.962				248620.36
		2.339	-0.13	0.77		5055.30		4966.46		0.00	-0.42	4966.04	
56131	M				67.71		2.4265		4.947				253586.40
		1.615	-0.30	0.00		14758.50		14499.13		0.00	-0.29	14498.84	
56132	M				67.74		2.4259		4.932				268085.24
		2.277	0.31	1.64		-18607.17		-18280.21		-0.01	-0.41	-18280.63	
56133	M				67.82		2.4307		4.895				249804.60
		1.383	0.10	0.42		-4491.18		-4412.28		0.00	-0.25	-4412.53	
99124	K				67.85		2.4329		4.879				245392.07
		2.727	-0.10	1.69		9.70		9.54		-0.01	-0.49	9.04	
56135	M				67.92		2.4358		4.843				245401.11
		1.471	-0.18	-1.26		5459.28		5363.39		-0.01	-0.27	5363.11	
AP40	P				67.97		2.4367		4.821				250764.23

1	2	3	4	5	6	7	8	9	10	11	12	13	14
AP40	P				67.97		2.4367		4.821				250764.23
		2.427	-0.07	-1.06		331.47		325.66		-0.01	-0.44	325.21	
99125	M				68.03		2.4386		4.789				251089.44
		2.269	-0.08	0.64		-1013.56		-995.76		-0.01	-0.41	-996.18	
56137	M				68.09		2.4420		4.761				250093.25
		1.565	-0.06	-0.10		9617.98		9449.10		0.00	-0.28	9448.82	
99320	K				68.11		2.4414		4.746				259542.07
		1.032	-0.07	0.09		3148.91		3093.62		0.00	-0.19	3093.43	
99319	K				68.14		2.4415		4.732				262635.51
		1.182	-0.18	1.05		20697.10		20333.67		0.00	-0.21	20333.46	
99318	M				68.17		2.4391		4.716				282968.96
		1.894	0.13	1.30		3334.48		3275.92		-0.01	-0.34	3275.57	
56140	M				68.22		2.4392		4.691				286244.53
		2.000	0.14	0.65		-27575.26		-27091.14		-0.01	-0.36	-27091.51	
99317	K				68.27		2.4476		4.663				259153.02
		0.432	-0.13	0.43		14371.76		14119.48		0.00	-0.08	14119.40	
56142	M				68.29		2.4452		4.656				273272.41
		2.329	0.02	0.36		-1802.25		-1770.62		-0.01	-0.42	-1771.05	
AP0206	P				68.34		2.4478		4.625				271501.37
		1.516	0.09	0.51		-4811.76		-4727.31		-0.01	-0.27	-4727.59	
56143	M				68.39		2.4494		4.603				266773.77
		1.893	-0.04	-0.59		-4055.57		-3984.39		-0.01	-0.34	-3984.74	
56144	M				68.43		2.4508		4.580				262789.03
		3.533	0.06	0.06		14558.56		14303.07		-0.01	-0.64	14302.42	
56145	M				68.50		2.4500		4.537				277091.45
		1.623	0.02	0.86		-3121.82		-3067.03		-0.01	-0.29	-3067.33	
62224	S				68.55		2.4511		4.513				274024.11
		1.446	-0.07	0.95		-430.79		-423.23		-0.01	0.92	-422.32	
99303	M				68.59		2.4518		4.490				273601.80
		0.270	0.13	0.17		-5511.27		-5414.56		0.00	-0.37	-5414.93	
56147	K				68.60		2.4529		4.488				268186.85
		0.050	-0.01	-0.18		370.63		364.13		0.00	0.03	364.16	
56148	K				68.60		2.4529		4.487				268551.02
		53.477	-0.40	15.49		24928.53		24490.69		-0.15	-8.74	24481.80	

R2 PALOJOENSUU-KARESUVANTO 1999.63

56148	K				68.60		2.4529		4.487				268551.02
		0.050	0.01	-0.18		-370.63		-364.13		0.00	-0.03	-364.16	
56147	K				68.60		2.4529		4.488				268186.85
		0.270	-0.13	0.17		5511.27		5414.56		0.00	0.37	5414.93	
99303	M				68.59		2.4518		4.490				273601.80
		2.236	-0.47	1.99		12711.44		12488.37		-0.01	-0.37	12487.99	
AP2202	P				68.65		2.4508		4.458				286089.79
		1.622	-0.15	0.45		7528.52		7396.40		-0.01	-0.27	7396.12	
56150	M				68.68		2.4491		4.441				293485.90
		2.582	0.28	1.98		-7875.74		-7737.53		-0.01	-0.43	-7737.97	
56151	M				68.71		2.4510		4.420				285747.93
		0.928	0.02	0.79		13.51		13.29		0.00	-0.15	13.14	
56152	K				68.72		2.4507		4.410				285761.06
		0.068	-0.01	-0.03		709.03		696.59		0.00	-0.01	696.58	
56153	K				68.73		2.4506		4.409				286457.64
		1.611	-0.01	1.29		10108.56		9931.15		0.00	-0.27	9930.88	
57101	M				68.72		2.4487		4.405				296388.52
		1.600	-0.03	0.59		-5114.74		-5024.97		-0.01	-0.27	-5025.25	
IV5817	K				68.76		2.4491		4.383				291363.28
		0.018	-0.03	-0.08		1754.41		1723.62		0.00	0.08	1723.70	
99304	K				68.76		2.4490		4.383				293086.98
		1.528	-0.14	0.48		5832.73		5730.36		-0.01	-0.01	5730.34	
AP0504	M				68.80		2.4493		4.361				298817.32
		2.014	-0.03	1.35		2267.95		2228.15		-0.01	-0.01	2228.13	
57103	K				68.83		2.4462		4.340				301045.45
		1.576	-0.10	0.42		442.18		434.42		-0.01	0.13	434.54	
99322	K				68.87		2.4466		4.318				301479.99
		1.192	-0.05	0.13		2620.10		2574.11		-0.01	0.48	2574.58	
57104	K				68.90		2.4447		4.301				304054.57

1	2	3	4	5	6	7	8	9	10	11	12	13	14
57104	K				68.90		2.4447		4.301				304054.57
		0.921	-0.19	0.76		25864.89		25410.76		-0.01	-0.02	25410.73	
896211	M				68.93		2.4396		4.287				329465.30
		0.841	0.23	0.05		-27864.33		-27375.09		0.00	0.15	-27374.94	
57105	M				68.94		2.4446		4.276				302090.37
		1.484	-0.37	-0.86		7772.70		7636.24		-0.01	0.17	7636.40	
99305	K				68.98		2.4431		4.254				309726.77
		3.127	0.24	2.29		18358.95		18036.58		-0.02	-0.29	18036.27	
57107	K				69.05		2.4386		4.212				327763.04
		1.966	-0.36	0.73		22623.08		22225.72		-0.01	-0.33	22225.38	
99306	K				69.09		2.4330		4.186				349988.42
		0.832	0.36	1.20		-25391.31		-24945.31		0.00	-0.14	-24945.45	
99307	S				69.10		2.4370		4.178				325042.97
		2.346	-0.12	1.37		2541.70		2497.06		0.00	-0.39	2496.67	
57109	M				69.10		2.4351		4.169				327539.64
		2.798	-0.06	2.82		4611.54		4530.53		0.00	-0.47	4530.06	
99311	K				69.08		2.4328		4.171				332069.70
		2.165	-0.15	-0.32		-5117.75		-5027.84		0.00	-0.36	-5028.20	
57111	M				69.08		2.4313		4.164				327041.50
		1.817	-0.28	0.14		-7752.03		-7615.84		0.00	-0.30	-7616.14	
99308	S				69.08		2.4309		4.158				319425.36
		2.367	-0.09	2.26		5993.89		5888.58		-0.01	-0.39	5888.18	
99309	K				69.12		2.4285		4.129				325313.54
		0.103	0.01	0.53		-398.20		-391.21		0.00	-0.01	-391.22	
56209	K				69.12		2.4286		4.129				324922.32
		38.062	-1.62	20.32		57381.74		56374.58		-0.14	-3.14	56371.30	

S1 INARI - KAAMANEN 2002.68

01215	K				70.70		2.5221		3.283				118340.75
		0.031	0.00	-0.11		76.24		74.91		0.00	0.02	74.93	
01216	K				70.70		2.5221		3.282				118415.68
		0.542	-0.05	0.96		3077.42		3023.63		-0.01	0.09	3023.71	
01214	S				70.70		2.5215		3.285				121439.39
		0.685	0.17	0.49		17335.76		17032.73		0.01	0.02	17032.76	
02216	M				70.72		2.5186		3.281				138472.14
		0.632	0.28	0.24		8349.44		8203.48		0.00	0.01	8203.49	
02213	M				70.73		2.5172		3.280				146675.64
		1.577	0.28	1.57		24245.92		23821.98		0.03	0.04	23822.05	
59110	M				70.76		2.5126		3.270				170497.68
		1.722	-0.12	0.97		-10039.85		-9864.29		0.06	0.04	-9864.19	
59111	M				70.81		2.5149		3.249				160633.50
		1.090	-0.01	0.70		-11797.27		-11591.01		0.04	0.03	-11590.94	
02214	K				70.84		2.5180		3.232				149042.54
		2.170	0.23	0.33		2057.51		2021.54		0.08	0.05	2021.67	
59113	M				70.89		2.5182		3.202				151064.21
		1.656	0.13	0.61		-204.83		-201.25		0.07	0.04	-201.14	
59114	M				70.93		2.5191		3.178				150863.07
		0.930	0.13	0.60		6530.93		6416.76		0.04	0.02	6416.82	
59115	K				70.96		2.5189		3.164				157279.89
		1.527	0.24	0.79		13801.49		13560.21		0.05	0.04	13560.30	
59116	M				71.00		2.5171		3.145				170840.19
		0.598	-0.20	0.77		40322.87		39617.78		0.02	0.01	39617.81	
59117	K				71.01		2.5102		3.136				210458.00
		1.266	0.28	0.86		-19395.05		-19055.88		0.05	0.03	-19055.80	
59118	M				71.05		2.5142		3.116				191402.19
		1.002	-0.01	0.95		-21065.89		-20697.58		0.04	0.02	-20697.52	
59119	M				71.07		2.5182		3.100				170704.69
		2.419	-0.12	2.46		10889.94		10699.57		0.09	0.06	10699.72	
59120	K				71.13		2.5187		3.066				181404.40
		1.747	0.14	1.51		-13549.75		-13312.90		0.06	0.04	-13312.80	
02215	M				71.16		2.5215		3.042				168091.61
		1.472	-0.39	0.53		-15375.34		-15106.63		0.03	0.03	-15106.57	
59122	K				71.17		2.5242		3.032				152985.05
		2.156	-0.10	0.71		5759.08		5658.43		0.09	0.05	5658.57	
59123	M				71.22		2.5233		3.000				158643.62

1	2	3	4	5	6	7	8	9	10	11	12	13	14
59123	M				71.22		2.5233		3.000				158643.62
		1.822	0.18	2.08		-4260.98		-4186.51		0.07	0.04	-4186.40	
59124	M				71.26		2.5241		2.975				154457.22
		0.530	-0.03	0.36		3040.68		2987.54		0.02	0.01	2987.57	
02217	K				71.27		2.5234		2.968				157444.79
		0.364	-0.01	0.34		3473.04		3412.34		0.01	0.01	3412.36	
59125	K				71.28		2.5228		2.963				160857.15
		1.429	0.48	1.42		-11760.92		-11555.39		0.06	0.03	-11555.30	
59126	M				71.32		2.5248		2.942				149301.85
		1.516	0.06	1.83		1182.95		1162.27		0.06	0.04	1162.37	
59127	M				71.36		2.5223		2.918				150464.22
		1.720	-0.06	1.34		-317.21		-311.67		0.06	0.04	-311.57	
59128	M				71.41		2.5230		2.895				150152.64
		2.004	-0.04	1.69		88.17		86.62		0.08	0.05	86.75	
59129	M				71.45		2.5228		2.867				150239.39
		0.676	0.10	0.09		1943.39		1909.43		0.02	0.02	1909.47	
59203	M				71.47		2.5227		2.858				152148.86
		1.166	0.10	0.64		-2633.59		-2587.57		-0.01	0.44	-2587.14	
59130	M				71.47		2.5241		2.862				149561.72
		1.550	-0.30	1.24		15934.57		15656.09		0.00	0.24	15656.33	
59131	M				71.48		2.5227		2.862				165218.05
		1.405	0.07	-0.88		19556.63		19214.81		0.00	0.45	19215.26	
59132	M				71.49		2.5203		2.863				184433.31
		0.466	0.02	-0.35		-2789.96		-2741.20		0.00	-0.05	-2741.25	
02121	K				71.50		2.5210		2.864				181692.05
		0.041	-0.04	-0.01		3626.39		3563.01		0.00	0.00	3563.01	
02122	K				71.50		2.5203		2.864				185255.05
		37.911	1.41	24.73		68101.77		66911.25		1.12	1.96	66914.33	

S3 A KAAMANEN - SÄYTSJÄRVI 2002.70

02122	K				71.50		2.5203		2.864				185255.05
		0.041	0.04	-0.01		-3626.39		-3563.01		0.00	0.00	-3563.01	
02121	K				71.50		2.5210		2.864				181692.05
		0.446	-0.05	-0.11		2790.09		2741.32		0.00	-0.07	2741.25	
59132	M				71.49		2.5203		2.863				184433.31
		1.405	0.32	-0.27		-19557.50		-19215.66		0.00	0.40	-19215.26	
59131	M				71.48		2.5227		2.862				165218.05
		1.550	0.28	-0.06		-15934.99		-15656.51		0.00	0.18	-15656.33	
59130	M				71.47		2.5241		2.862				149561.72
		1.220	-0.09	-2.06		2632.73		2586.72		0.01	0.41	2587.14	
59203	M				71.47		2.5227		2.858				152148.86
		0.903	0.11	1.10		2224.69		2185.82		0.02	-0.01	2185.83	
59204	M				71.49		2.5226		2.852				154334.68
		2.958	-0.13	2.97		3904.14		3835.91		0.11	-0.04	3835.98	
59210	M				71.57		2.5215		2.809				158170.66
		1.848	-0.12	0.57		5307.12		5214.35		0.07	-0.02	5214.40	
59207	M				71.62		2.5202		2.785				163385.06
		1.134	-0.07	1.03		6020.08		5914.84		0.04	-0.01	5914.87	
59208	M				71.65		2.5184		2.770				169299.92
		1.193	-0.01	0.89		538.24		528.83		0.04	-0.02	528.85	
59211	M				71.68		2.5183		2.753				169828.78
		2.682	0.06	1.97		-1459.39		-1433.88		0.11	-0.03	-1433.80	
59212	M				71.76		2.5193		2.714				168394.97
		0.873	-0.18	0.45		12981.99		12755.05		0.04	-0.01	12755.08	
59213	K				71.79		2.5178		2.701				181150.06
		0.048	0.00	-0.08		937.73		921.33		0.00	0.00	921.33	
02353	K				71.79		2.5176		2.701				182071.39
		0.808	-0.02	-0.61		5533.91		5437.17		0.03	-0.01	5437.19	
02354	M				71.81		2.5170		2.689				187508.57
		0.891	0.03	-0.66		-2292.30		-2252.22		0.03	-0.01	-2252.20	
59214	M				71.83		2.5183		2.677				185256.38
		0.428	-0.07	-0.46		12758.44		12535.38		0.01	-0.01	12535.38	
02355	K				71.84		2.5160		2.672				197791.76
		0.987	0.02	-1.04		-1668.65		-1639.47		0.03	-0.01	-1639.45	
59215	M				71.87		2.5168		2.659				196152.31

1	2	3	4	5	6	7	8	9	10	11	12	13	14
59215	M				71.87		2.5168		2.659				196152.31
		1.106	0.08	-1.58		8726.05		8573.49		0.03	-0.01	8573.51	
59216	M				71.90		2.5155		2.647				204725.82
		0.385	0.00	-0.40		9962.25		9788.06		0.01	0.00	9788.07	
02356	K				71.91		2.5137		2.643				214513.88
		0.949	-0.08	-0.78		-12500.01		-12281.45		0.02	-0.01	-12281.44	
59217	M				71.93		2.5165		2.635				202232.44
		1.512	0.22	-2.92		12034.09		11823.68		0.06	-0.02	11823.72	
02352	K				71.97		2.5150		2.613				214056.16
		1.643	-0.03	-1.63		-3574.36		-3511.87		0.06	-0.02	-3511.83	
59219	M				72.02		2.5175		2.590				210544.33
		0.901	0.06	-1.48		4472.37		4394.18		0.03	-0.01	4394.20	
02351	M				72.04		2.5182		2.577				214938.53
		0.838	0.01	-1.11		-3201.96		-3145.99		0.03	-0.01	-3145.97	
59220	M				72.07		2.5207		2.564				211792.55
		1.375	0.01	-2.09		1756.98		1726.27		0.05	-0.02	1726.30	
59221	M				72.11		2.5221		2.545				213518.85
		0.778	0.00	-0.81		3812.31		3745.68		0.03	-0.01	3745.70	
02350	K				72.13		2.5215		2.533				217264.55
		0.840	0.00	-1.34		4823.64		4739.33		0.03	-0.01	4739.35	
59222	M				72.15		2.5209		2.521				222003.90
		1.581	-0.02	-1.27		555.30		545.59		0.06	-0.02	545.63	
59223	M				72.20		2.5209		2.500				222549.53
		1.672	-0.02	-1.61		-3006.36		-2953.81		0.06	-0.02	-2953.77	
02349	M				72.24		2.5218		2.476				219595.76
		1.439	0.20	-1.03		2792.45		2743.64		0.06	-0.02	2743.68	
02348	M				72.28		2.5214		2.456				222339.44
		0.800	0.00	-1.16		2772.39		2723.93		0.03	-0.01	2723.95	
59224	M				72.30		2.5211		2.445				225063.39
		1.305	-0.11	-0.72		-1288.97		-1266.44		0.05	-0.02	-1266.41	
59225	M				72.34		2.5217		2.427				223796.98
		1.349	-0.02	-1.02		-977.94		-960.85		0.05	-0.02	-960.82	
59226	M				72.37		2.5230		2.409				222836.16
		0.923	-0.15	-1.37		12477.59		12259.51		0.03	-0.01	12259.53	
59228	K				72.39		2.5210		2.399				235095.69
		0.040	-0.03	-0.10		2219.92		2181.12		0.00	0.00	2181.12	
59229	K				72.39		2.5206		2.399				237276.81
		0.120	-0.04	-0.15		3170.96		3115.53		0.00	0.00	3115.53	
59227	K				72.39		2.5200		2.398				240392.34
		38.971	0.20	-18.95		56116.64		55135.56		1.23	0.50	55137.29	

S3 B SÄYTSJÄRVI - UTSJOKI 2002.64

59227	K				72.39		2.5200		2.398				240392.34
		0.479	0.23	-0.89		2977.05		2925.01		0.02	-0.01	2925.02	
61201	M				72.41		2.5197		2.392				243317.35
		1.028	-0.15	-0.91		16991.73		16694.69		0.04	-0.01	16694.72	
61202	M				72.44		2.5167		2.378				260012.07
		1.402	-0.16	-1.96		6448.35		6335.60		0.05	-0.02	6335.63	
61203	M				72.48		2.5156		2.359				266347.70
		0.068	0.02	-0.16		-3355.12		-3296.45		0.00	0.00	-3296.45	
02347	K				72.47		2.5163		2.359				263051.26
		1.370	0.07	-0.54		12600.75		12380.42		0.05	-0.02	12380.45	
02346	M				72.51		2.5140		2.342				275431.71
		1.556	0.03	-1.11		7664.42		7530.40		0.06	-0.02	7530.44	
02345	M				72.56		2.5122		2.319				282962.14
		0.830	0.04	-0.66		-4043.06		-3972.35		0.02	-0.01	-3972.34	
61205	K				72.57		2.5130		2.313				278989.80
		1.414	-0.24	-1.03		-16278.72		-15994.08		0.05	-0.02	-15994.05	
61206	K				72.60		2.5160		2.296				262995.77
		2.136	-0.46	-2.15		-20121.80		-19770.03		0.08	-0.03	-19769.98	
61207	M				72.66		2.5195		2.268				243225.79
		0.868	-0.01	-0.92		-2199.63		-2161.18		0.03	-0.01	-2161.16	
02344	M				72.69		2.5201		2.255				241064.63
		1.755	0.03	-1.61		-13993.24		-13748.65		0.07	-0.02	-13748.60	
61208	M				72.74		2.5226		2.230				227316.03

1	2	3	4	5	6	7	8	9	10	11	12	13	14
61208	M				72.74		2.5226		2.230				227316.03
		1.422	-0.30	-1.67		-9830.60		-9658.80		0.05	-0.02	-9658.77	
02343	K				72.78		2.5248		2.210				217657.26
		0.355	-0.43	-0.47		-10199.99		-10021.76		0.01	0.00	-10021.75	
61209	M				72.79		2.5269		2.206				207635.50
		0.903	-0.06	-0.85		-4670.50		-4588.89		0.03	-0.01	-4588.87	
61210	K				72.81		2.5279		2.194				203046.64
		2.060	0.13	-2.51		116.50		114.46		0.07	-0.03	114.50	
61211	M				72.87		2.5271		2.166				203161.14
		1.200	-0.03	-1.57		-3060.36		-3006.89		0.04	-0.02	-3006.87	
02342	M				72.91		2.5288		2.150				200154.27
		0.311	-0.02	-0.37		-8712.88		-8560.66		0.01	0.00	-8560.65	
61212	M				72.91		2.5307		2.146				191593.63
		1.715	-0.37	-1.87		-33687.61		-33099.22		0.06	-0.02	-33099.18	
61213	M				72.96		2.5371		2.123				158494.44
		1.140	-0.04	-0.80		-14517.09		-14263.60		0.02	-0.01	-14263.59	
61214	K				72.98		2.5407		2.115				144230.85
		1.044	-0.02	-0.86		-3348.65		-3290.19		0.03	-0.01	-3290.17	
61215	K				73.00		2.5457		2.104				140940.68
		1.880	-0.16	-1.76		-3515.16		-3453.80		0.05	-0.02	-3453.77	
61216	M				73.05		2.5446		2.084				137486.89
		1.252	-0.09	-2.12		1756.71		1726.06		0.03	-0.02	1726.07	
02341	M				73.07		2.5461		2.073				139212.96
		1.526	0.04	-2.19		-17183.58		-16883.71		0.03	-0.02	-16883.70	
02340	M				73.10		2.5514		2.060				122329.27
		1.130	0.04	-1.81		8931.66		8775.82		0.03	-0.01	8775.84	
61217	M				73.12		2.5512		2.048				131105.10
		0.693	-0.04	-0.81		680.91		669.03		0.01	-0.01	669.03	
02339	M				73.14		2.5529		2.043				131774.13
		0.711	0.03	-0.93		-6906.96		-6786.46		0.01	-0.01	-6786.46	
61218	K				73.15		2.5551		2.038				124987.66
		2.129	0.27	-2.46		14546.64		14292.88		0.04	-0.03	14292.89	
02338	K				73.18		2.5567		2.024				139280.57
		1.145	-0.12	-0.67		-8353.50		-8207.81		0.04	-0.01	-8207.78	
61219	M				73.21		2.5601		2.008				131072.77
		1.405	0.28	-0.65		-17710.14		-17401.31		0.05	-0.02	-17401.28	
61220	K				73.25		2.5640		1.991				113671.50
		1.276	-0.16	-0.47		-3049.75		-2996.58		0.05	-0.02	-2996.55	
61221	K				73.28		2.5682		1.973				110674.96
		1.889	-0.31	-2.32		4245.58		4171.58		0.07	-0.02	4171.63	
61222	M				73.33		2.5704		1.947				114846.58
		1.659	0.03	-1.82		-3881.88		-3814.23		0.06	-0.02	-3814.19	
61223	K				73.38		2.5736		1.925				111032.39
		2.319	-0.14	-2.79		-31165.36		-30622.43		0.08	-0.03	-30622.38	
02337	K				73.44		2.5838		1.896				80410.01
		0.015	0.00	0.07		-155.22		-152.52		0.00	0.00	-152.52	
61224	K				73.44		2.5839		1.896				80257.49
		0.990	-0.07	-1.99		4491.33		4413.11		0.02	-0.01	4413.12	
02336	K				73.46		2.5843		1.888				84670.61
		2.104	-0.25	-2.01		15671.48		15398.55		0.07	-0.03	15398.59	
02335	M				73.52		2.5843		1.861				100069.20
		1.104	0.06	-1.02		1570.99		1543.63		0.04	-0.01	1543.66	
61226	M				73.55		2.5851		1.846				101612.86
		1.859	0.16	-1.90		-12654.65		-12434.31		0.06	-0.02	-12434.27	
61227	M				73.60		2.5919		1.822				89178.58
		2.326	-0.07	-2.87		5621.95		5524.08		0.07	-0.03	5524.12	
61228	M				73.65		2.5914		1.796				94702.70
		1.172	-0.03	-0.03		1571.76		1544.40		0.04	-0.02	1544.42	
61229	K				73.68		2.5918		1.780				96247.13
		1.208	0.14	-1.32		-14253.16		-14005.07		0.04	-0.02	-14005.05	
02334	M				73.72		2.5955		1.765				82242.07
		2.204	-0.02	-3.23		8075.07		7934.52		0.08	-0.03	7934.57	
02333	K				73.78		2.5954		1.735				90176.65
		0.937	0.05	-0.88		-6248.49		-6139.75		0.03	-0.01	-6139.73	
61231	K				73.81		2.5976		1.722				84036.91
		1.360	-0.04	-1.79		592.47		582.16		0.05	-0.02	582.19	
61232	K				73.84		2.5975		1.703				84619.12

1	2	3	4	5	6	7	8	9	10	11	12	13	14
61232	K				73.84		2.5975		1.703				84619.12
		2.041	0.06	-2.08		-3654.45		-3590.85		0.07	-0.03	-3590.81	
02332	K				73.90		2.5978		1.675				81028.31
		0.681	0.07	-0.48		4178.98		4106.26		0.02	-0.01	4106.27	
02331	M				73.92		2.5970		1.667				85134.58
		0.792	0.04	-1.37		14824.22		14566.22		0.03	-0.01	14566.24	
61234	M				73.94		2.5944		1.656				99700.82
		2.912	-0.24	-2.05		-12329.97		-12115.37		0.10	-0.04	-12115.31	
02361	M				74.02		2.5956		1.619				87585.51
		1.509	0.05	-0.48		-11947.32		-11739.40		0.05	-0.02	-11739.37	
02300	K				74.05		2.5979		1.601				75846.15
		0.301	0.32	-0.59		-10470.23		-10288.03		0.00	0.00	-10288.03	
HT58	K				74.06		2.5999		1.601				65558.12
		0.044	-0.01	-0.13		729.02		716.33		0.00	0.00	716.33	
61238	K				74.06		2.5998		1.601				66274.44
		0.015	0.00	-0.01		177.51		174.42		0.00	0.00	174.42	
61237	K				74.06		2.5998		1.600				66448.86
		65.644	-1.85	-67.87		-177033.99		-173944.74		2.11	-0.84	-173943.47	

SULV SULVA LAND UPLIFT/GRAVITY 1988.74

60002	K				48.11		2.0753		7.033				28132.12
		0.490	-0.12	0.31		-6210.44		-6099.13		-0.04	0.00	-6099.17	
65368	K				48.09		2.0764		7.029				22032.96
		0.732	0.00	0.22		-1440.56		-1414.74		-0.04	0.00	-1414.78	
60003	K				48.07		2.0764		7.026				20618.18
		0.170	0.03	0.15		623.89		612.71		0.01	0.00	612.72	
65370	K				48.07		2.0763		7.027				21230.90
		1.392	-0.09	0.68		-7027.11		-6901.15		-0.07	0.00	-6901.22	

VAA A VAALA FAULT LINE 1981.78

VAALA1	K				54.77		2.2088		5.905				86456.94
		2.773	0.05	-0.38		2941.89		2889.55		-0.31	1.19	2890.43	
VAALA2	K				54.75		2.2071		5.888				89347.37
		4.930	-0.21	0.13		22092.98		21699.80		-0.63	-2.25	21696.92	
VAALA3	K				54.73		2.1997		5.853				111044.30
		1.822	-0.13	0.51		13458.19		13218.60		-0.31	1.83	13220.12	
VAALA4	K				54.72		2.1956		5.836				124264.41
		2.323	-0.18	-0.35		-1570.78		-1542.81		-0.25	0.31	-1542.75	
VAALA5	K				54.67		2.1933		5.822				122721.65
		0.008	-0.01	-0.04		1433.95		1408.42		0.00	0.05	1408.47	
1964	K				54.67		2.1930		5.822				124130.13
		4.410	-0.03	1.11		13495.05		13254.73		-0.28	-0.48	13253.97	
VAALA6	K				54.76		2.1919		5.807				137384.11
		16.266	-0.51	0.98		51851.28		50928.29		-1.78	0.65	50927.16	

VAA B VAALA FAULT LINE 1986.66

VAALA1	K				54.77		2.2088		5.905				86456.94
		2.792	0.08	1.97		2944.47		2892.09		-0.23	-1.43	2890.43	
VAALA2	K				54.75		2.2071		5.888				89347.37
		1.058	0.57	2.09		20963.68		20590.63		-0.02	0.50	20591.11	
AP3	P				54.75		2.2021		5.887				109938.48
		3.954	0.58	0.39		1124.42		1104.41		-0.45	1.85	1105.81	
VAALA3	K				54.73		2.1997		5.853				111044.30
		1.820	0.30	1.15		13460.56		13220.93		-0.23	-0.58	13220.12	
VAALA4	K				54.72		2.1956		5.836				124264.41
		2.360	0.06	2.21		-1571.34		-1543.36		-0.18	0.79	-1542.75	
VAALA5	K				54.67		2.1933		5.822				122721.65
		0.016	0.03	0.00		1434.08		1408.54		0.00	-0.07	1408.47	
1964	K				54.67		2.1930		5.822				124130.13
		2.334	0.26	0.95		10167.81		9986.74		-0.21	-0.32	9986.21	
1961	M				54.69		2.1915		5.806				134116.34

1	2	3	4	5	6	7	8	9	10	11	12	13	14
1961	M				54.69		2.1915		5.806				134116.34
		2.330	0.05	0.87		3326.85		3267.61		0.00	0.16	3267.77	
VAALA6	K				54.76		2.1919		5.807				137384.11
		16.664	1.93	9.63		51850.53		50927.58		-1.32	0.90	50927.16	

VAA C VAALA FAULT LINE 1989.80

VAALA1	K				54.77		2.2088		5.905				86456.94
		2.808	0.13	0.15		2942.75		2890.39		-0.18	0.22	2890.43	
VAALA2	K				54.75		2.2071		5.888				89347.37
		4.154	1.37	2.64		30917.47		30367.22		-0.34	-0.04	30366.84	
AP4	P				54.72		2.1980		5.854				119714.21
		0.896	-0.39	1.63		-8827.03		-8669.90		-0.01	-0.01	-8669.92	
VAALA3	K				54.73		2.1997		5.853				111044.30
		1.798	0.40	0.63		13461.18		13221.54		-0.18	-1.24	13220.12	
VAALA4	K				54.72		2.1956		5.836				124264.41
		2.332	-0.05	-0.43		-1569.48		-1541.53		-0.14	-1.08	-1542.75	
VAALA5	K				54.67		2.1933		5.822				122721.65
		0.016	0.05	0.10		1434.03		1408.49		0.00	-0.02	1408.47	
1964	K				54.67		2.1930		5.822				124130.13
		2.312	0.29	0.24		10166.86		9985.81		-0.16	0.56	9986.21	
1961	M				54.69		2.1915		5.806				134116.34
		2.286	0.23	0.74		3326.92		3267.68		0.00	0.09	3267.77	
VAALA6	K				54.76		2.1919		5.807				137384.11
		16.602	2.03	5.70		51852.70		50929.69		-1.01	-1.52	50927.16	

ÄÄNE ÄÄNEKOSKI LAND UPLIFT/GRAVITY 1989.64

55216	M				46.77		2.0780		4.842				108958.63
		1.834	-0.72	2.78		-12496.37		-12272.43		-0.02	0.00	-12272.45	
177	K				46.74		2.0800		4.841				96686.18
		2.174	0.31	0.37		4086.63		4013.40		-0.13	0.00	4013.27	
562263	K				46.67		2.0784		4.828				100699.45
		1.002	0.44	1.53		3892.30		3822.55		-0.02	0.00	3822.53	
65367	K				46.64		2.0772		4.826				104521.98
		5.010	0.03	4.68		-4517.45		-4436.48		-0.17	0.00	-4436.65	

M A TORNIO-HAAPARANTA 1997.59

96129	K				59.66		2.3235		6.959				10603.61
		0.014	0.00	-0.02		-795.64		-781.58		0.00	0.00	-781.58	
96128	K				59.66		2.3236		6.959				9822.03
		1.156	-0.07	0.02		-3098.75		-3043.98		0.01	-0.16	-3044.13	
97210	M				59.64		2.3254		6.965				6777.90
		1.044	-0.01	0.87		1683.52		1653.77		0.01	-0.14	1653.64	
97208	S				59.61		2.3258		6.970				8431.55
		1.253	-0.04	-0.11		2109.54		2072.26		0.02	-0.17	2072.11	
97209	S				59.59		2.3258		6.976				10503.65
		0.416	-0.02	-0.21		-26.47		-26.00		0.00	-0.06	-26.06	
SW5602	S				59.59		2.3258		6.978				10477.61
		0.006	0.00	-0.01		-510.71		-501.68		0.00	0.00	-501.68	
SW5601	S				59.59		2.3259		6.978				9975.92
		0.580	0.06	0.20		446.68		438.79		0.01	-0.08	438.72	
SW5506	K				59.59		2.3261		6.981				10414.64
		0.273	0.03	0.16		1947.77		1913.34		0.00	-0.04	1913.30	
SW5505	K				59.59		2.3257		6.982				12327.94
		4.742	-0.05	0.90		1755.94		1724.92		0.05	-0.65	1724.32	

N A PEKANPÄÄ-VUENNONKOSKI 1997.75

97317	K				61.00		2.3214		6.847				79143.46
		0.019	0.01	-0.09		-2610.84		-2564.68		0.00	0.00	-2564.68	
97316	K				61.00		2.3219		6.847				76578.78

1	2	3	4	5	6	7	8	9	10	11	12	13	14
97316	K				61.00		2.3219		6.847				76578.78
		0.792	0.03	-0.51		-11203.38		-11005.34		0.01	-0.19	-11005.52	
97318	M				60.98		2.3239		6.849				65573.26
		1.676	0.25	0.06		-15577.54		-15302.20		0.02	0.07	-15302.11	
53217	M				60.93		2.3264		6.856				50271.15
		1.651	0.02	0.40		1.90		1.87		0.00	-0.34	1.53	
97315	M				60.89		2.3264		6.857				50272.69
		0.414	0.00	-0.77		-20.32		-19.96		0.01	0.04	-19.91	
53211	M				60.88		2.3262		6.859				50252.78
		0.045	-0.01	0.05		769.63		756.03		0.00	-0.14	755.89	
53213	M				60.88		2.3261		6.860				51008.67
		0.025	0.00	0.04		-467.70		-459.44		0.00	-0.11	-459.55	
53212	M				60.88		2.3262		6.860				50549.12
		0.051	0.11	-0.13		-11161.33		-10964.08		0.00	0.00	-10964.08	
AP0114	M				60.88		2.3283		6.860				39585.04
		0.144	-0.04	0.25		2072.71		2036.08		0.00	0.00	2036.08	
SW2223	K				60.88		2.3279		6.861				41621.12
		0.074	0.02	-0.08		-1481.94		-1455.75		0.00	0.00	-1455.75	
SW2207	K				60.88		2.3282		6.860				40165.37
		0.012	0.00	0.02		-148.01		-145.40		0.00	0.00	-145.40	
SW2208	K				60.88		2.3282		6.860				40019.97
		4.903	0.39	-0.76		-39826.81		-39122.86		0.04	-0.67	-39123.49	

X A TÖRMÄSNIVA-RUOTSI-KOLARI 1999.68

56210	K				64.94		2.3852		5.961				139430.36
		0.006	0.00	-0.01		-301.76		-296.44		0.00	0.00	-296.44	
56211	K				64.94		2.3853		5.961				139133.92
		0.260	-0.05	0.03		-788.95		-775.05		0.00	0.03	-775.02	
SW7709	M				64.95		2.3855		5.959				138358.90
		0.010	0.00	-0.01		190.40		187.05		0.00	0.00	187.05	
SW7702	M				64.95		2.3855		5.959				138545.94
		0.016	-0.01	0.01		1485.40		1459.24		0.00	0.00	1459.24	
SW7701	M				64.95		2.3852		5.959				140005.18
		0.184	-0.03	-0.04		8735.92		8582.03		0.00	-0.03	8582.00	
SW7712	P				64.96		2.3834		5.958				148587.17
		1.354	-0.01	0.46		-3063.42		-3009.45		0.00	-0.24	-3009.69	
SW7708	M				64.98		2.3830		5.948				145577.48
		1.408	-0.01	0.65		-1531.25		-1504.28		0.00	-0.25	-1504.53	
SW7711	P				64.99		2.3832		5.940				144072.95
		1.110	0.00	0.49		152.74		150.05		0.00	-0.20	149.85	
SW7710	P				64.99		2.3840		5.936				144222.80
		1.638	-0.04	1.10		1368.62		1344.51		0.00	-0.29	1344.22	
SW7805	P				65.01		2.3857		5.927				145567.01
		1.342	-0.02	0.10		-592.23		-581.80		0.00	-0.24	-582.04	
SW7806	P				65.05		2.3860		5.914				144984.97
		1.361	0.06	-0.10		2144.21		2106.45		0.00	-0.24	2106.21	
SW8807	S				65.09		2.3857		5.901				147091.18
		0.788	-0.02	-0.12		-2914.85		-2863.51		0.00	0.10	-2863.41	
60154	M				65.09		2.3863		5.898				144227.78
		2.177	0.00	1.38		-2159.36		-2121.33		-0.01	0.27	-2121.07	
60155	K				65.15		2.3882		5.881				142106.70
		0.020	0.00	0.01		-400.68		-393.62		0.00	0.01	-393.61	
60156	K				65.15		2.3883		5.881				141713.09
		11.674	-0.13	3.95		2324.77		2283.84		-0.01	-1.08	2282.75	

R3 KARESUVANTO-HAUKIJÄRVI 2000.62

56209	K				69.12		2.4286		4.129				324922.32
		0.030	-0.01	0.13		398.20		391.21		0.00	0.01	391.22	
99309	K				69.12		2.4285		4.129				325313.54
		0.018	0.02	-0.15		-1507.10		-1480.62		0.00	0.00	-1480.62	
99310	K				69.12		2.4288		4.128				323832.92
		0.905	0.05	0.80		-2950.76		-2898.92		-0.01	-0.14	-2899.07	
SW1417	S				69.09		2.4290		4.141				320933.85

1	2	3	4	5	6	7	8	9	10	11	12	13	14
SW1417	S				69.09		2.4290		4.141				320933.85
		1.326	0.01	1.25		-1265.59		-1243.36		0.00	-0.21	-1243.57	
SW1416	P				69.08		2.4287		4.146				319690.27
		1.349	-0.07	0.78		4013.85		3943.32		-0.01	-0.21	3943.10	
SW1404	M				69.05		2.4281		4.159				323633.37
		1.324	-0.07	1.73		3510.59		3448.90		-0.01	-0.21	3448.68	
SW1415	M				69.02		2.4267		4.173				327082.05
		1.198	0.00	-0.84		393.58		386.66		-0.01	-0.19	386.46	
SW1401	M				68.99		2.4247		4.183				327468.52
		1.363	-0.02	0.48		3388.98		3329.41		0.00	-0.21	3329.20	
SW1312	K				68.98		2.4221		4.186				330797.72
		7.513	-0.09	4.18		5981.75		5876.60		-0.04	-1.16	5875.40	

U A AAVASAKSA-ÖVERTORNEÅ 1997.71

97325	K				61.65		2.3223		6.731				86052.54
		0.007	0.00	-0.01		-1717.97		-1687.60		0.00	0.01	-1687.59	
97324	K				61.65		2.3226		6.731				84364.95
		0.262	-0.07	-0.27		-21928.80		-21541.20		0.00	0.43	-21540.77	
97329	M				61.65		2.3269		6.732				62824.18
		1.028	-0.03	0.42		-6581.96		-6465.64		-0.01	-0.57	-6466.22	
3959	M				61.67		2.3285		6.730				56357.95
		1.834	-0.23	0.45		-4635.03		-4553.13		0.02	0.00	-4553.11	
SW7009	S				61.66		2.3294		6.739				51804.84
		0.008	0.00	0.02		2.98		2.92		0.00	0.00	2.92	
SW7008	S				61.66		2.3294		6.739				51807.76
		1.159	0.08	0.08		8249.27		8103.50		0.00	0.00	8103.50	
SW7007	M				61.68		2.3279		6.740				59911.26
		0.828	0.02	1.20		5649.11		5549.28		0.01	0.00	5549.29	
SW7907	K				61.67		2.3266		6.745				65460.55
		1.916	-0.08	0.15		-2229.67		-2190.27		-0.03	0.00	-2190.30	
SW7010	K				61.71		2.3279		6.734				63270.26
		7.042	-0.31	2.04		-23192.06		-22782.13		-0.01	-0.13	-22782.27	

V A PELLO-PENTÄSNIEMI 1999.55

99210	K				63.26		2.3661		6.301				96736.94
		0.030	0.00	0.00		67.86		66.66		0.00	0.00	66.66	
99209	K				63.26		2.3661		6.301				96803.60
		1.552	0.12	0.54		-10177.37		-9997.91		0.01	0.00	-9997.90	
532201	M				63.22		2.3671		6.313				86805.70
		0.600	-0.05	-0.06		-857.15		-842.03		0.00	-0.03	-842.06	
SW7108	S				63.23		2.3674		6.311				85963.64
		0.265	0.01	0.40		-218.67		-214.81		0.00	-0.01	-214.82	
SW7107	P				63.23		2.3674		6.311				85748.82
		1.239	-0.03	-0.80		-856.62		-841.52		0.00	-0.07	-841.59	
SW6115	P				63.21		2.3671		6.321				84907.23
		0.712	0.00	-1.43		-429.19		-421.62		0.00	-0.04	-421.66	
SW6114	M				63.21		2.3671		6.324				84485.57
		2.038	-0.01	-0.40		-5242.30		-5149.87		0.00	-0.12	-5149.99	
SW6104	K				63.23		2.3690		6.328				79335.59
		6.436	0.04	-1.75		-17713.43		-17401.09		0.01	-0.27	-17401.35	

Y A MUONIO-MUONIONALUSTA 1999.70

99107	K				67.41		2.4125		5.083				244069.24
		0.151	0.01	0.07		-3929.22		-3860.13		0.00	0.16	-3859.97	
99106	K				67.40		2.4132		5.085				240209.28
		1.578	0.07	-0.03		-2085.05		-2048.38		0.01	1.38	-2046.99	
A2002.1	P				67.36		2.4126		5.105				238162.27
		0.795	0.08	-0.82		-6339.21		-6227.73		0.00	0.69	-6227.04	
IV59055	M				67.33		2.4134		5.114				231935.24
		0.395	0.01	-0.68		-375.93		-369.32		0.00	0.08	-369.24	
SW1508	S				67.33		2.4135		5.114				231566.00

1	2	3	4	5	6	7	8	9	10	11	12	13	14
SW1508	S				67.33		2.4135		5.114				231566.00
		0.207	0.00	-0.19		-338.15		-332.20		0.00	0.04	-332.16	
SW1509	P				67.34		2.4138		5.113				231233.83
		1.189	0.03	0.63		1374.34		1350.18		0.00	0.24	1350.42	
SW1510	P				67.34		2.4146		5.111				232584.25
		1.392	0.11	-0.53		12425.17		12206.66		0.00	0.28	12206.94	
SW1507	M				67.31		2.4119		5.125				244791.18
		1.450	-0.04	1.13		-14561.59		-14305.52		0.00	0.29	-14305.23	
SW1506	M				67.28		2.4169		5.136				230485.96
		0.816	-0.06	0.41		-1409.14		-1384.37		0.00	0.16	-1384.21	
SW1505	M				67.27		2.4182		5.143				229101.74
		1.179	0.22	-1.27		-7603.27		-7469.60		0.00	0.23	-7469.37	
SW1414	M				67.24		2.4208		5.155				221632.38
		1.038	-0.02	-0.04		-16866.72		-16570.25		0.00	0.21	-16570.04	
SW1413	K				67.24		2.4252		5.157				205062.33
		10.190	0.41	-1.32		-39708.79		-39010.66		0.01	3.76	-39006.89	

R4 A KARESUVANTO-JÄRÄMÄ 1999.67

56209	K				69.12		2.4286		4.129				324922.32
		0.060	0.02	0.25		-1108.86		-1089.37		0.00	-0.03	-1089.40	
99310	K				69.12		2.4288		4.128				323832.92
		0.385	-0.09	0.28		7621.88		7487.95		0.00	-0.01	7487.94	
99312	M				69.13		2.4272		4.124				331320.87
		0.925	0.02	0.17		-4639.58		-4558.05		0.00	-0.02	-4558.07	
57112	M				69.15		2.4269		4.111				326762.80
		2.178	-0.07	0.70		-6951.15		-6829.00		-0.01	-0.04	-6829.05	
99313	S				69.19		2.4260		4.084				319933.76
		0.978	0.06	1.68		2238.43		2199.09		0.00	-0.02	2199.07	
57113	M				69.20		2.4251		4.071				322132.83
		2.933	0.03	0.78		3152.95		3097.53		-0.01	-0.05	3097.47	
99316	M				69.24		2.4217		4.044				325230.29
		2.196	0.03	0.36		3206.77		3150.40		-0.01	-0.04	3150.35	
99314	S				69.25		2.4177		4.026				328380.65
		1.040	-0.01	0.80		280.95		276.01		0.00	-0.02	275.99	
99315	S				69.24		2.4174		4.028				328656.65
		1.931	0.03	0.33		4250.58		4175.85		0.00	-0.03	4175.82	
57114	K				69.23		2.4186		4.030				332832.45
		2.390	-0.11	0.52		4700.10		4617.44		0.00	-0.04	4617.40	
57115	M				69.23		2.4106		4.022				337449.85
		2.535	-0.02	0.96		11507.20		11304.76		-0.01	-0.04	11304.71	
57116	K				69.24		2.4026		4.004				348754.56
		0.874	-0.15	1.00		14502.23		14247.00		0.00	-0.02	14246.98	
57117	K				69.25		2.3984		3.999				363001.53
		18.425	-0.26	7.83		38761.50		38079.60		-0.04	-0.36	38079.20	

R4 B JÄRÄMÄ-KILPISJÄRVI 2000.63

57117	K				69.25		2.3984		3.999				363001.53
		0.022	-0.02	0.00		1103.01		1083.59		0.00	0.00	1083.59	
99321	K				69.25		2.3982		3.998				364085.12
		1.903	-0.15	1.28		17855.38		17541.07		0.01	-0.03	17541.05	
57119	M				69.26		2.3958		3.987				381626.18
		2.087	0.04	-0.16		-12581.30		-12359.85		0.02	-0.04	-12359.87	
57120	M				69.31		2.4011		3.955				369266.30
		2.036	-0.01	-1.24		16483.53		16193.42		0.02	-0.04	16193.40	
57121	M				69.37		2.3995		3.920				385459.71
		1.955	-0.01	0.58		-2485.22		-2441.49		0.02	-0.03	-2441.50	
57122	M				69.43		2.4018		3.887				383018.20
		0.400	-0.03	-0.06		4547.24		4467.21		0.00	-0.01	4467.20	
00105	K				69.44		2.4015		3.880				387485.40
		1.673	0.12	-0.18		-11293.61		-11094.92		0.02	-0.03	-11094.93	
57123	M				69.48		2.4124		3.854				376390.47
		1.170	0.02	-1.14		-1928.04		-1894.13		0.01	-0.02	-1894.14	
00104	M				69.51		2.4137		3.836				374496.34

1	2	3	4	5	6	7	8	9	10	11	12	13	14
00104	M				69.51		2.4137		3.836				374496.34
		1.000	0.08	-0.45		-8024.55		-7883.44		0.01	-0.02	-7883.45	
57124	M				69.53		2.4167		3.820				366612.89
		1.101	-0.46	0.93		27493.54		27010.04		0.01	-0.02	27010.03	
57125	K				69.55		2.4112		3.804				393622.92
		2.578	-0.02	0.84		-9949.77		-9774.77		0.02	-0.05	-9774.80	
57126	M				69.61		2.4118		3.767				383848.11
		1.713	0.14	1.55		2291.28		2250.99		0.01	-0.03	2250.97	
57127	M				69.62		2.4125		3.753				386099.08
		0.763	0.09	-0.38		-9498.17		-9331.13		0.00	-0.01	-9331.14	
00103	K				69.62		2.4145		3.752				376767.94
		2.056	-0.07	-0.90		10807.57		10617.52		0.00	-0.04	10617.48	
57129	M				69.61		2.4152		3.751				387385.42
		1.613	0.05	1.56		-176.32		-173.22		0.01	-0.03	-173.24	
57130	M				69.62		2.4175		3.736				387212.19
		1.167	0.17	0.32		19532.87		19189.38		0.01	-0.02	19189.37	
00102	K				69.65		2.4127		3.721				406401.55
		0.214	0.03	-0.16		-4140.05		-4067.24		0.00	0.00	-4067.24	
57131	M				69.65		2.4136		3.718				402334.31
		2.004	0.09	-0.14		-17446.87		-17140.08		0.02	-0.04	-17140.10	
57132	M				69.71		2.4172		3.684				385194.22
		2.779	0.24	-3.04		7480.44		7348.91		0.03	-0.05	7348.89	
57133	M				69.77		2.4139		3.644				392543.11
		1.694	-0.14	1.51		2761.44		2712.88		0.02	-0.03	2712.87	
57134	M				69.81		2.4140		3.619				395255.98
		1.863	-0.03	0.32		3506.88		3445.21		0.02	-0.03	3445.20	
57135	M				69.85		2.4132		3.594				398701.18
		1.323	0.14	1.49		-814.84		-800.51		0.01	-0.02	-800.52	
57136	M				69.88		2.4141		3.572				397900.65
		1.575	-0.01	-0.18		-768.05		-754.55		0.01	-0.03	-754.57	
57137	K				69.90		2.4139		3.559				397146.08
		0.992	-0.13	0.93		2397.17		2355.01		0.01	-0.02	2355.00	
57138	K				69.91		2.4128		3.550				399501.09
		1.770	-0.10	-2.53		7640.52		7506.14		0.01	-0.03	7506.12	
57139	M				69.92		2.4127		3.537				407007.21
		1.882	0.28	-0.60		7068.55		6944.23		0.01	-0.03	6944.21	
57140	M				69.93		2.4114		3.525				413951.41
		1.826	0.07	0.54		2962.35		2910.24		0.02	-0.03	2910.23	
57141	M				69.96		2.4088		3.501				416861.64
		0.864	-0.07	0.61		3406.86		3346.93		0.01	-0.02	3346.92	
00316	K				69.98		2.4086		3.487				420208.57
		1.044	0.09	-0.04		-5569.95		-5471.97		0.01	-0.02	-5471.98	
57142	M				70.01		2.4103		3.469				414736.59
		1.894	0.16	-0.41		-10983.95		-10790.76		0.02	-0.03	-10790.77	
57143	M				70.07		2.4120		3.438				403945.81
		1.746	-0.12	-0.09		18623.57		18295.99		0.02	-0.03	18295.98	
57144	M				70.11		2.4088		3.410				422241.80
		1.140	0.48	-0.49		-13468.71		-13231.80		0.01	-0.02	-13231.81	
00315	M				70.15		2.4119		3.391				409009.99
		0.888	0.09	-0.28		-1075.31		-1056.40		0.01	-0.02	-1056.41	
57145	M				70.18		2.4123		3.376				407953.59
		1.552	-0.03	0.44		2779.94		2731.06		0.01	-0.03	2731.04	
IV15	M				70.21		2.4128		3.354				410684.63
		0.996	-0.10	-0.24		8505.96		8356.36		0.01	-0.02	8356.35	
57146	M				70.22		2.4129		3.345				419040.98
		0.908	-1.14	-0.03		21236.64		20863.12		0.00	-0.02	20863.10	
00314	M				70.22		2.4090		3.339				439904.09
		1.314	-0.26	-1.68		13872.45		13628.41		0.00	-0.02	13628.39	
57147	M				70.23		2.4081		3.332				453532.48
		1.428	-0.01	0.73		-10168.43		-9989.57		0.01	-0.02	-9989.58	
00313	K				70.25		2.4112		3.314				443542.89
		0.528	-0.02	-0.01		-119.82		-117.71		0.01	-0.01	-117.71	
57148	M				70.27		2.4116		3.305				443425.18
		2.058	0.11	1.77		-7087.23		-6962.58		0.02	-0.04	-6962.60	
57149	M				70.32		2.4137		3.271				436462.59
		2.140	-0.11	1.52		-559.07		-549.24		0.02	-0.04	-549.26	
00301	M				70.38		2.4145		3.236				435913.33

1	2	3	4	5	6	7	8	9	10	11	12	13	14
00301	M				70.38		2.4145		3.236				435913.33
		1.398	0.12	-1.05		17908.00		17593.06		0.01	-0.02	17593.05	
57151	M				70.41		2.4128		3.216				453506.37
		1.670	-0.03	-0.09		-652.80		-641.32		0.02	-0.03	-641.33	
57152	K				70.44		2.4136		3.191				452865.05
		1.739	0.13	0.34		-10639.21		-10452.13		0.02	-0.03	-10452.14	
57153	K				70.49		2.4176		3.162				442412.91
		2.373	-0.12	0.65		13698.41		13457.55		0.02	-0.04	13457.53	
57154	K				70.53		2.4157		3.128				455870.45
		0.900	-0.13	-0.92		9852.79		9679.53		0.01	-0.02	9679.52	
57155	K				70.55		2.4138		3.115				465549.98
		1.928	0.01	-1.46		-11762.62		-11555.78		0.02	-0.03	-11555.79	
57156	M				70.60		2.4173		3.085				453994.18
		1.836	0.06	0.31		5015.09		4926.92		0.01	-0.03	4926.90	
57157	M				70.63		2.4159		3.063				458921.07
		1.738	-0.06	1.26		15791.11		15513.41		0.01	-0.03	15513.39	
57158	M				70.66		2.4113		3.040				474434.46
		1.240	0.10	0.87		-4612.51		-4531.39		0.01	-0.02	-4531.40	
00302	M				70.69		2.4122		3.021				469903.07
		1.238	-0.44	0.75		49876.02		48998.57		0.01	-0.02	48998.56	
00303	K				70.71		2.4023		3.001				518901.63
		0.708	-0.32	-0.42		25737.06		25284.08		0.01	-0.01	25284.08	
57160	K				70.73		2.3973		2.989				544185.70
		1.498	-0.07	2.15		9634.56		9464.95		0.01	-0.03	9464.93	
57161	M				70.76		2.3942		2.969				553650.64
		0.652	0.26	0.97		-24749.28		-24313.61		0.01	-0.01	-24313.61	
00304	K				70.77		2.3990		2.960				529337.03
		0.617	0.39	-0.09		-30679.17		-30139.27		0.01	-0.01	-30139.27	
00305	K				70.79		2.4048		2.950				499197.76
		0.928	0.30	0.16		-17890.33		-17575.59		0.01	-0.02	-17575.60	
00306	K				70.81		2.4086		2.934				481622.17
		0.100	0.10	0.49		-8452.72		-8304.03		0.00	0.00	-8304.03	
57163	K				70.82		2.4104		2.932				473318.13
		2.048	0.03	0.70		-1325.27		-1301.96		0.02	-0.04	-1301.98	
57164	M				70.87		2.4082		2.907				472016.15
		1.532	0.05	-0.16		908.24		892.26		0.01	-0.03	892.24	
57165	M				70.91		2.4069		2.885				472908.40
		1.872	-0.02	0.88		-689.05		-676.93		0.02	-0.03	-676.94	
57166	M				70.96		2.4060		2.853				472231.45
		1.426	0.01	0.95		-4722.82		-4639.73		0.01	-0.02	-4639.74	
57167	M				71.00		2.4077		2.830				467591.71
		1.403	-0.23	-0.76		15222.02		14954.22		0.02	-0.02	14954.22	
00307	M				71.04		2.4056		2.806				482545.92
		1.032	-0.04	0.82		-1263.88		-1241.64		0.01	-0.02	-1241.65	
00308	K				71.06		2.4061		2.790				481304.28
		0.844	-0.07	-0.68		2672.48		2625.46		0.01	-0.01	2625.46	
57169	M				71.08		2.4058		2.777				483929.73
		1.144	0.19	-0.02		-9373.17		-9208.27		0.01	-0.02	-9208.28	
00309	K				71.10		2.4081		2.760				474721.45
		1.904	-0.18	1.14		7336.67		7207.61		0.02	-0.03	7207.60	
00310	K				71.15		2.4075		2.729				481929.04
		1.588	0.14	-0.49		-7072.91		-6948.47		0.02	-0.03	-6948.48	
57172	M				71.19		2.4034		2.705				474980.57
		1.052	0.05	0.05		-17.60		-17.29		0.01	-0.02	-17.30	
00311	K				71.21		2.4029		2.687				474963.27
		0.484	-0.01	0.86		1155.23		1134.90		0.00	-0.01	1134.89	
57173	M				71.22		2.4019		2.680				476098.16
		1.796	0.29	1.98		22853.97		22451.72		0.02	-0.03	22451.71	
57174	S				71.28		2.3971		2.651				498549.87
		0.946	-0.18	-0.47		20868.77		20501.37		0.01	-0.02	20501.36	
00312	M				71.30		2.3925		2.635				519051.23
		0.926	-0.25	0.36		13724.81		13483.13		0.01	-0.02	13483.12	
57175	M				71.33		2.3893		2.620				532534.36
		1.784	0.07	2.10		-11827.84		-11619.55		0.02	-0.03	-11619.56	
56203	K				71.38		2.3897		2.591				520914.80
		0.242	0.05	0.49		-2991.90		-2939.22		0.00	0.00	-2939.22	
56202	K				71.39		2.3902		2.588				517975.57

1	2	3	4	5	6	7	8	9	10	11	12	13	14
56202	K				71.39		2.3902		2.588				517975.57
		0.028	0.00	0.12		256.81		252.29		0.00	0.00	252.29	
56201	K				71.39		2.3902		2.589				518227.86
		102.273	-0.35	14.28		158006.93		155227.22		0.90	-1.80	155226.32	

R4 C KILPISJÄRVI 2000.65

56201	K				71.39		2.3902		2.589				518227.86
		0.114	0.07	0.21		-5807.70		-5705.43		0.00	0.00	-5705.43	
R7N52	K				71.39		2.3912		2.586				512522.43
		0.014	-0.02	0.03		1485.29		1459.14		0.00	0.00	1459.14	
R7N18	K				71.39		2.3910		2.587				513981.57
		0.090	-0.01	-0.04		68.61		67.40		0.00	0.00	67.40	
R7N17	K				71.39		2.3910		2.587				514048.97
		0.218	0.04	0.20		-4253.80		-4178.89		0.00	0.00	-4178.89	

R5 A PALOJOENSUU - ENONTEKIÖ 2002.66

56148	K				68.60		2.4529		4.487				268551.02
		0.050	0.00	0.00		-370.74		-364.23		0.00	0.07	-364.16	
56147	K				68.60		2.4529		4.488				268186.85
		0.392	-0.12	0.16		5512.77		5416.03		-0.01	-1.09	5414.93	
99303	M				68.59		2.4518		4.490				273601.80
		1.437	0.56	0.63		428.74		421.22		-0.06	1.16	422.32	
62224	S				68.55		2.4511		4.513				274024.11
		1.157	-0.01	0.19		3917.64		3848.88		0.01	-0.02	3848.87	
02117	M				68.56		2.4503		4.508				277872.99
		0.984	0.12	-0.24		9590.01		9421.70		0.01	-0.01	9421.70	
62225	M				68.58		2.4483		4.503				287294.67
		0.890	-0.23	0.27		5460.93		5365.08		0.01	-0.01	5365.08	
62226	M				68.59		2.4468		4.498				292659.75
		1.094	-0.25	0.39		-2457.32		-2414.19		0.02	-0.02	-2414.19	
02116	M				68.61		2.4469		4.492				290245.57
		1.081	-0.02	-0.49		-755.08		-741.82		0.03	-0.02	-741.81	
62227	K				68.63		2.4467		4.482				289503.76
		1.573	0.09	0.55		26595.98		26129.05		0.00	-0.02	26129.03	
62228	M				68.64		2.4402		4.483				315632.79
		1.975	0.19	-0.01		-20977.77		-20609.43		-0.01	-0.03	-20609.47	
62229	M				68.64		2.4424		4.485				295023.31
		1.463	-0.19	-0.43		-8905.11		-8748.76		-0.01	-0.02	-8748.79	
02115	M				68.63		2.4425		4.490				286274.53
		2.263	-0.19	1.68		9399.74		9234.69		0.02	-0.03	9234.68	
62230	M				68.66		2.4382		4.483				295509.20
		1.580	-0.11	0.03		-2502.97		-2459.01		0.04	-0.02	-2458.99	
62231	M				68.69		2.4369		4.467				293050.20
		1.474	-0.05	-0.56		-2679.45		-2632.39		0.05	-0.02	-2632.36	
62232	M				68.73		2.4370		4.450				290417.84
		1.300	0.05	-0.16		-2337.06		-2296.01		0.02	-0.02	-2296.01	
62233	K				68.75		2.4349		4.441				288121.84
		0.607	-0.07	0.14		3747.19		3681.37		0.01	-0.01	3681.37	
02114	K				68.76		2.4342		4.438				291803.21
		0.152	-0.01	0.10		1101.06		1081.72		0.00	0.00	1081.72	
62234	K				68.76		2.4339		4.437				292884.92
		2.115	0.25	-0.61		-1537.30		-1510.30		0.04	-0.03	-1510.29	
02113	K				68.80		2.4325		4.422				291374.62
		1.177	0.20	0.46		11258.59		11060.79		0.02	-0.02	11060.79	
02112	K				68.81		2.4295		4.414				302435.43
		0.872	-0.08	0.02		-625.81		-614.81		0.02	-0.01	-614.80	
02111	K				68.83		2.4288		4.407				301820.63
		2.977	0.61	0.23		-17265.69		-16962.30		0.05	-0.04	-16962.29	
62238	S				68.87		2.4275		4.388				284858.34
		3.321	0.31	-0.59		9908.41		9734.25		0.02	-0.05	9734.22	
62239	M				68.90		2.4184		4.382				294592.56

1	2	3	4	5	6	7	8	9	10	11	12	13	14
62239	M				68.90		2.4184		4.382				294592.56
		1.230	-0.17	1.22		1531.55		1504.63		0.00	-0.02	1504.61	
62241	K				68.90		2.4167		4.384				296097.17
		31.164	0.88	2.98		28038.30		27546.15		0.28	-0.28	27546.15	

R5 B ENONTEKIÖ - KIVILOMPOLO 2002.61

62241	K				68.90		2.4167		4.384				296097.17
		0.576	-0.10	1.46		-4054.38		-3983.09		0.00	-0.01	-3983.10	
62240	M				68.89		2.4182		4.385				292114.08
		1.157	-0.11	0.80		-1880.97		-1847.90		0.01	-0.02	-1847.91	
02110	S				68.90		2.4197		4.381				290266.17
		0.875	-0.05	-0.40		4270.72		4195.64		0.03	-0.01	4195.66	
72201	K				68.92		2.4205		4.369				294461.83
		1.653	-0.16	-0.85		15620.29		15345.67		0.06	-0.02	15345.71	
72202	M				68.97		2.4178		4.345				309807.54
		1.507	-0.23	-0.23		275.64		270.79		0.04	-0.02	270.81	
72203	M				68.99		2.4202		4.330				310078.36
		1.384	-0.19	-1.26		-11518.92		-11316.45		0.04	-0.02	-11316.43	
72204	K				69.02		2.4242		4.315				298761.93
		1.012	0.08	0.69		5107.54		5017.77		0.03	-0.01	5017.79	
72205	K				69.04		2.4244		4.302				303779.71
		1.298	0.14	-0.85		11585.79		11382.15		0.04	-0.02	11382.17	
72206	K				69.07		2.4235		4.286				315161.88
		1.379	-0.14	-0.24		12198.04		11983.64		0.04	-0.02	11983.66	
02107	K				69.10		2.4224		4.269				327145.54
		2.397	0.18	0.51		5543.42		5445.99		0.08	-0.03	5446.04	
72208	M				69.15		2.4254		4.240				332591.58
		1.452	0.08	-0.89		10907.09		10715.42		0.04	-0.02	10715.44	
72209	M				69.18		2.4273		4.226				343307.02
		2.119	-0.63	-0.31		-2897.59		-2846.67		0.07	-0.03	-2846.63	
72210	K				69.22		2.4295		4.197				340460.39
		1.248	0.04	0.35		910.98		894.98		0.04	-0.02	895.00	
72211	K				69.25		2.4312		4.182				341355.39
		0.470	0.02	-0.42		615.04		604.24		0.01	-0.01	604.24	
72212	K				69.26		2.4318		4.176				341959.64
		1.456	-0.16	0.81		16443.30		16154.41		0.05	-0.02	16154.44	
72213	M				69.29		2.4298		4.158				358114.08
		1.386	-0.29	0.29		-15228.72		-14961.22		0.05	-0.02	-14961.19	
72214	K				69.33		2.4398		4.138				343152.89
		1.659	-0.32	-1.23		10147.68		9969.47		0.06	-0.02	9969.51	
72215	K				69.38		2.4359		4.114				353122.39
		1.348	0.08	-0.06		-21330.92		-20956.29		0.05	-0.02	-20956.26	
72216	S				69.41		2.4381		4.097				332166.14
		3.185	0.27	0.49		22933.41		22530.54		0.12	-0.05	22530.61	
72217	M				69.51		2.4273		4.049				354696.75
		2.855	0.06	-2.49		-4676.76		-4594.58		0.11	-0.04	-4594.51	
02108	M				69.59		2.4267		4.007				350102.25
		1.249	0.11	1.68		6768.75		6649.80		0.05	-0.02	6649.83	
72219	M				69.63		2.4265		3.988				356752.08
		2.008	0.42	0.88		20157.51		19803.24		0.08	-0.03	19803.29	
72220	K				69.69		2.4232		3.956				376555.37
		0.063	0.00	0.02		468.45		460.21		0.00	0.00	460.21	
01300	K				69.69		2.4231		3.955				377015.58
		0.945	0.00	0.44		4609.25		4528.24		0.04	-0.01	4528.27	
72221	M				69.72		2.4226		3.940				381543.85
		1.780	-0.03	0.54		-1657.61		-1628.47		0.07	-0.03	-1628.43	
02109	M				69.77		2.4231		3.912				379915.42
		1.275	0.32	1.22		4671.24		4589.13		0.05	-0.02	4589.16	
72222	M				69.81		2.4225		3.891				384504.58
		0.982	-0.04	0.10		-1938.20		-1904.13		0.04	-0.01	-1904.10	
72223	M				69.84		2.4236		3.876				382600.48
		0.175	-0.02	-0.10		449.27		441.37		0.00	0.00	441.37	
72224	M				69.84		2.4237		3.874				383041.85
		1.281	0.12	1.25		2303.51		2263.03		0.05	-0.02	2263.06	
U8N16	K				69.88		2.4249		3.854				385304.91

1	2	3	4	5	6	7	8	9	10	11	12	13	14
U8N16	K				69.88		2.4249		3.854				385304.91
		0.111	0.02	-0.04		2185.18		2146.77		0.00	0.00	2146.77	
U8N17	K				69.89		2.4247		3.852				387451.68
		40.285	-0.53	2.16		92988.06		91353.72		1.35	-0.57	91354.50	

S2 A KAAMANEN - MUOTKANRUOKTU 2002.69

02122	K				71.50		2.5203		2.864				185255.05
		0.041	0.04	-0.01		-3626.39		-3563.01		0.00	0.00	-3563.01	
02121	K				71.50		2.5210		2.864				181692.05
		1.239	0.01	-0.84		-2235.59		-2196.51		0.01	0.04	-2196.46	
59133	M				71.51		2.5232		2.860				179495.60
		1.048	-0.24	0.66		13945.20		13701.47		0.02	0.04	13701.53	
59134	M				71.53		2.5214		2.854				193197.12
		1.825	0.05	0.23		5217.73		5126.53		0.03	0.07	5126.63	
59135	M				71.57		2.5216		2.842				198323.75
		1.729	-0.04	0.03		14979.44		14717.63		0.03	0.06	14717.72	
59136	M				71.60		2.5208		2.829				213041.47
		1.427	0.13	-0.64		-5634.17		-5535.70		0.02	0.05	-5535.63	
59137	M				71.63		2.5236		2.823				207505.83
		1.093	-0.31	-0.72		23746.62		23331.57		0.00	0.04	23331.61	
02120	M				71.64		2.5198		2.822				230837.44
		0.605	-0.22	-0.49		27650.52		27167.11		0.00	0.02	27167.13	
59138	M				71.65		2.5147		2.820				258004.58
		0.500	0.21	1.07		-10069.00		-9892.95		0.00	0.02	-9892.93	
59151	K				71.65		2.5166		2.820				248111.64
		1.350	0.12	-0.97		-11583.40		-11380.90		0.03	0.05	-11380.82	
59139	M				71.68		2.5189		2.810				236730.82
		1.040	0.02	0.14		7023.15		6900.37		0.02	0.04	6900.43	
59140	K				71.70		2.5190		2.801				243631.25
		1.095	0.25	0.31		-21834.90		-21453.26		0.01	0.04	-21453.21	
02119	M				71.72		2.5232		2.796				222178.04
		1.181	0.18	-0.27		-15018.31		-14755.86		0.01	0.04	-14755.81	
59141	M				71.73		2.5264		2.792				207422.24
		1.159	-0.06	-0.95		14257.13		14007.98		0.05	0.04	14008.07	
59142	M				71.77		2.5237		2.775				221430.30
		0.874	-0.28	0.20		8964.55		8807.88		0.03	0.03	8807.94	
02118	M				71.79		2.5222		2.765				230238.24
		0.709	0.08	0.21		4310.10		4234.77		0.03	0.03	4234.83	
59143	M				71.81		2.5216		2.756				234473.07
		2.046	0.02	1.16		-16484.71		-16196.61		0.04	0.07	-16196.50	
59144	M				71.84		2.5242		2.739				218276.58
		0.369	0.06	0.09		-7092.51		-6968.57		0.01	0.01	-6968.55	
02105	K				71.85		2.5254		2.734				211308.04
		0.398	-0.04	-0.11		-586.27		-576.03		0.01	0.01	-576.01	
59145	K				71.86		2.5254		2.729				210732.03
		19.728	-0.02	-0.90		25929.20		25475.91		0.35	0.70	25476.96	

S2 B MUOTKANRUOKTU - KARIGASNIEMI 2002.46

59145	K				71.86		2.5254		2.729				210732.03
		1.452	-0.14	0.33		-7764.49		-7628.81		0.05	0.05	-7628.71	
59146	M				71.90		2.5262		2.708				203103.32
		2.048	-0.03	0.18		6549.54		6435.09		0.05	0.07	6435.21	
59147	M				71.95		2.5249		2.688				209538.54
		1.774	-0.09	0.13		3598.12		3535.25		0.03	0.06	3535.34	
59148	M				71.99		2.5255		2.675				213073.88
		1.280	0.03	-0.67		-11801.67		-11595.47		0.01	0.05	-11595.41	
59149	K				72.00		2.5288		2.671				201478.47
		1.893	0.28	-0.53		14683.30		14426.74		0.04	0.07	14426.85	
59150	M				72.04		2.5261		2.655				215905.32
		1.252	0.08	-0.52		8481.80		8333.59		0.02	0.05	8333.66	
59152	K				72.06		2.5262		2.649				224238.97
		1.110	-0.75	-1.02		-8240.27		-8096.29		0.02	0.04	-8096.23	
59153	M				72.08		2.5280		2.639				216142.74

1	2	3	4	5	6	7	8	9	10	11	12	13	14
59153	M				72.08		2.5280		2.639				216142.74
		2.022	0.04	0.68		417.06		409.78		0.03	0.07	409.88	
59154	K				72.12		2.5284		2.625				216552.61
		2.280	0.34	-1.27		18627.61		18302.12		0.04	0.08	18302.24	
59155	M				72.16		2.5251		2.607				234854.86
		2.050	-0.32	0.04		-8527.08		-8378.07		0.03	0.07	-8377.97	
59156	M				72.19		2.5256		2.595				226476.89
		0.891	-0.03	-0.32		-130.43		-128.15		0.00	0.03	-128.12	
59157	K				72.20		2.5257		2.593				226348.77
		0.934	0.20	0.68		-4366.22		-4289.93		0.00	0.03	-4289.90	
59158	K				72.20		2.5266		2.593				222058.89
		1.284	0.52	-0.39		17909.63		17596.66		0.02	0.05	17596.73	
59159	K				72.22		2.5236		2.587				239655.61
		0.954	0.03	0.16		28204.59		27711.60		0.00	0.03	27711.63	
02101	M				72.23		2.5184		2.585				267367.25
		1.646	0.40	-1.15		8218.27		8074.60		0.01	0.06	8074.67	
59160	M				72.24		2.5170		2.582				275441.92
		1.456	0.85	0.65		11695.49		11491.01		0.01	0.05	11491.07	
59161	M				72.26		2.5142		2.580				286932.98
		1.435	1.10	-0.93		23669.61		23255.68		0.01	0.05	23255.74	
59162	M				72.27		2.5100		2.578				310188.72
		1.104	0.25	0.02		9081.13		8922.29		0.00	0.04	8922.33	
02102	M				72.27		2.5084		2.576				319111.06
		0.978	0.07	-0.05		3028.25		2975.28		0.01	0.04	2975.33	
59163	M				72.28		2.5073		2.573				322086.39
		1.703	-0.56	2.81		-13247.83		-13016.11		0.02	0.06	-13016.03	
59164	M				72.31		2.5100		2.564				309070.35
		2.278	-0.33	-0.72		-15272.72		-15005.62		-0.01	0.08	-15005.55	
59165	M				72.32		2.5127		2.566				294064.81
		1.573	-0.11	-0.01		-5174.89		-5084.39		0.01	0.06	-5084.32	
59166	M				72.33		2.5134		2.561				288980.49
		1.320	-1.30	-0.31		-14753.79		-14495.82		0.00	0.05	-14495.77	
59167	M				72.34		2.5159		2.561				274484.71
		1.303	-0.01	0.28		3788.47		3722.22		0.00	0.05	3722.27	
59168	K				72.34		2.5140		2.560				278206.99
		0.650	-0.18	-0.55		7051.22		6927.92		0.00	0.02	6927.94	
59169	K				72.35		2.5119		2.560				285134.92
		1.896	-0.15	-0.97		19308.58		18970.85		0.01	0.07	18970.93	
59170	M				72.36		2.5062		2.556				304105.85
		1.717	0.01	1.15		-27078.18		-26604.50		0.00	0.06	-26604.44	
59171	M				72.37		2.5078		2.556				277501.41
		1.773	-0.32	0.12		-5167.49		-5077.10		-0.01	0.06	-5077.05	
59172	M				72.37		2.5069		2.561				272424.37
		1.117	-0.44	0.98		-28757.05		-28254.06		-0.01	0.04	-28254.03	
02103	K				72.36		2.5114		2.567				244170.35
		0.722	0.31	0.23		-24318.47		-23893.20		-0.01	0.03	-23893.18	
02104	K				72.36		2.5139		2.571				220277.16
		1.103	0.49	0.91		-59247.83		-58212.11		-0.02	0.04	-58212.09	
56206	K				72.36		2.5240		2.577				162065.07
		0.058	-0.04	-0.01		-1329.64		-1306.41		0.00	0.00	-1306.41	
56205	K				72.36		2.5241		2.578				160758.67
		0.868	0.27	1.75		-28755.71		-28253.25		0.00	0.00	-28253.25	
56204	M				72.36		2.5294		2.580				132505.42
		45.924	0.47	1.68		-79621.06		-78228.59		0.36	1.61	-78226.62	

S4 UTSJOKI - PULMANKI 2002.48

61237	K				74.06		2.5998		1.600				66448.86
		0.015	0.00	-0.01		-177.51		-174.42		0.00	0.00	-174.42	
61238	K				74.06		2.5998		1.601				66274.44
		0.999	-0.16	-0.77		3388.44		3329.48		-0.01	0.02	3329.49	
02301	S				74.05		2.5989		1.604				69603.93
		1.352	0.13	-1.89		1607.17		1579.21		0.02	0.02	1579.25	
02302	S				74.06		2.5977		1.596				71183.19
		1.398	-0.11	-1.98		-4323.02		-4247.79		0.03	0.02	-4247.74	
02303	K				74.08		2.5963		1.586				66935.46

1	2	3	4	5	6	7	8	9	10	11	12	13	14
02303	K				74.08		2.5963		1.586				66935.46
		1.928	0.17	-3.24		2110.05		2073.32		0.04	0.03	2073.39	
MP9526	M				74.12		2.5960		1.568				69008.85
		0.933	0.58	-1.44		7624.86		7492.16		0.01	0.02	7492.19	
02304	M				74.13		2.5961		1.563				76501.04
		1.315	0.06	-1.18		4538.37		4459.39		0.02	0.02	4459.43	
02305	M				74.15		2.5963		1.554				80960.47
		1.072	-0.78	-0.73		-17260.26		-16959.91		0.01	0.02	-16959.88	
02306	M				74.16		2.6000		1.548				64000.59
		0.861	0.18	-0.34		6130.26		6023.59		0.01	0.02	6023.62	
02307	K				74.17		2.5997		1.543				70024.21
		1.050	-0.16	-1.45		-12521.80		-12303.94		0.02	0.02	-12303.90	
02308	K				74.18		2.6036		1.537				57720.30
		1.226	0.02	-1.84		10016.90		9842.63		0.02	0.02	9842.67	
02309	K				74.19		2.6028		1.530				67562.98
		1.530	-0.23	-0.97		-1615.09		-1587.00		0.05	0.03	-1586.92	
02310	K				74.23		2.6040		1.511				65976.05
		0.992	-0.07	-1.98		-5899.72		-5797.09		0.03	0.02	-5797.04	
02311	M				74.26		2.6054		1.499				60179.01
		0.755	0.36	-0.90		10733.16		10546.45		0.02	0.01	10546.48	
02312	K				74.28		2.6036		1.489				70725.50
		0.727	0.24	-0.97		13398.02		13164.93		0.02	0.01	13164.96	
02313	K				74.29		2.6016		1.481				83890.47
		1.174	0.00	-0.77		1827.43		1795.64		0.01	0.02	1795.67	
02314	M				74.30		2.6014		1.476				85686.14
		1.056	-0.14	-1.64		-16752.63		-16461.19		0.02	0.02	-16461.15	
02315	K				74.32		2.6049		1.469				69224.98
		1.370	-0.14	-2.09		-16461.01		-16174.70		0.04	0.02	-16174.64	
02316	M				74.35		2.6081		1.453				53050.34
		2.103	-0.03	-2.19		-7538.58		-7407.48		0.06	0.04	-7407.38	
662552	M				74.40		2.6095		1.428				45642.96
		1.479	0.29	-2.22		28460.12		27965.10		0.01	0.03	27965.14	
AP0505	M				74.41		2.6038		1.423				73608.10
		1.162	-0.34	-0.91		-16921.51		-16627.16		0.01	0.02	-16627.13	
02317	M				74.41		2.6067		1.420				56980.97
		1.771	-0.10	-2.84		-8964.61		-8808.70		0.02	0.03	-8808.65	
02318	S				74.42		2.6081		1.414				48172.32
		1.705	-0.01	-1.89		7125.02		7001.10		0.06	0.03	7001.19	
02319	M				74.46		2.6065		1.391				55173.51
		1.210	0.23	-2.06		8064.31		7924.03		0.04	0.02	7924.09	
02320	M				74.50		2.6044		1.373				63097.60
		1.421	0.02	-2.43		5.93		5.83		0.04	0.03	5.90	
02321	M				74.53		2.6050		1.355				63103.50
		1.046	0.04	-0.70		-1255.39		-1233.56		0.03	0.02	-1233.51	
02322	M				74.56		2.6057		1.342				61869.98
		1.201	-0.05	-1.52		6355.58		6245.03		0.02	0.02	6245.07	
02323	M				74.57		2.6041		1.333				68115.06
		0.821	0.04	-0.93		10515.40		10332.46		0.00	0.01	10332.47	
02324	M				74.57		2.6019		1.332				78447.53
		1.419	-0.11	-2.66		21335.40		20964.17		0.01	0.03	20964.21	
02325	M				74.58		2.5979		1.326				99411.74
		1.241	-0.04	-1.73		-23603.89		-23193.19		-0.01	0.02	-23193.18	
MP2092	M				74.57		2.6032		1.330				76218.56
		0.756	-0.54	-0.98		-39367.16		-38682.45		-0.01	0.01	-38682.45	
02326	M				74.56		2.6109		1.334				37536.11
		1.957	-0.03	-2.98		-11023.63		-10831.95		-0.01	0.03	-10831.93	
02327	K				74.55		2.6134		1.338				26704.19
		0.146	0.05	-0.51		-10425.87		-10244.61		0.00	0.00	-10244.61	
662561	K				74.55		2.6154		1.337				16459.58
		1.353	0.04	-1.53		17578.26		17272.64		0.03	0.02	17272.69	
02328	K				74.57		2.6121		1.327				33732.27
		0.996	-0.08	-0.79		-14565.04		-14311.79		0.02	0.02	-14311.75	
AP0902	M				74.59		2.6137		1.318				19420.52
		1.059	0.00	-1.25		4054.28		3983.78		0.02	0.02	3983.82	
02329	K				74.60		2.6110		1.311				23404.34
		1.860	0.02	-3.54		5184.49		5094.34		0.02	0.03	5094.39	
966101	M				74.61		2.6097		1.303				28498.73

1	2	3	4	5	6	7	8	9	10	11	12	13	14
966101	M				74.61		2.6097		1.303				28498.73
		2.056	0.05	-2.71		2329.82		2289.30		0.03	0.04	2289.37	
02330	K				74.63		2.6087		1.291				30788.10
		0.157	0.01	-0.27		-14811.82		-14554.24		0.00	0.00	-14554.24	
662563	K				74.63		2.6116		1.290				16233.86
		2.010	0.02	-3.11		14937.44		14677.69		0.01	0.04	14677.74	
N0045	M				74.63		2.6096		1.286				30911.60
		1.076	-0.16	-1.11		-9210.00		-9049.85		-0.03	0.02	-9049.86	
N0044	P				74.60		2.6122		1.297				21861.75
		1.318	0.08	-1.02		-4091.76		-4020.61		-0.03	0.02	-4020.62	
N0043	P				74.58		2.6138		1.310				17841.12
		3.158	-0.01	-3.21		14733.31		14477.13		0.00	0.06	14477.19	
N0042	K				74.56		2.6105		1.311				32318.32
		54.234	-0.66	-69.28		-34736.27		-34132.22		0.70	0.95	-34130.57	

S5 UTSJOKI - ROAVVEGIEDDE 2002.57

61237	K				74.06		2.5998		1.600				66448.86
		0.015	0.00	-0.01		-177.51		-174.42		0.00	0.00	-174.42	
61238	K				74.06		2.5998		1.601				66274.44
		0.044	0.01	-0.13		-729.02		-716.33		0.00	0.00	-716.33	
HT58	K				74.06		2.5999		1.601				65558.12
		0.490	-0.08	-0.80		9739.05		9569.58		0.01	0.00	9569.59	
N0039	S				74.06		2.5980		1.599				75127.70
		1.770	-0.19	-2.28		16839.77		16546.70		0.04	0.00	16546.74	
N0004	K				74.09		2.5951		1.585				91674.44
		0.053	0.02	0.05		-516.37		-507.39		0.00	0.00	-507.39	
N0005	K				74.09		2.5952		1.584				91167.05
		2.372	-0.24	-3.17		25155.92		24718.14		0.05	0.00	24718.19	

13 SIMOLA-VAINIKKALA 2003.42

80130	K				39.60		1.9323		1.723				54692.64
		0.173	0.00	-0.43		1692.73		1662.14		0.01	0.64	1662.79	
80206	K				39.59		1.9319		1.721				56355.45
		2.125	0.19	0.78		-7878.64		-7736.30		0.05	0.00	-7736.25	
38187	K				39.60		1.9356		1.706				48619.19
		2.098	-0.21	2.09		3141.78		3085.02		0.07	0.00	3085.09	
97001	K				39.55		1.9322		1.684				51704.29
		1.704	0.11	0.47		-10891.15		-10694.37		0.07	0.00	-10694.30	
716	K				39.50		1.9319		1.665				41009.99
		1.701	0.02	-0.04		-2637.47		-2589.81		0.06	0.00	-2589.75	
717	K				39.47		1.9301		1.647				38420.23
		1.021	-0.02	-0.87		2975.95		2922.17		0.04	0.00	2922.21	
03105	K				39.45		1.9294		1.636				41342.44
		1.211	0.08	0.42		-1039.54		-1020.76		0.04	0.00	-1020.72	
718	K				39.42		1.9294		1.624				40321.73
		1.823	-0.14	0.39		-1541.00		-1513.15		0.07	0.00	-1513.08	
77002	K				39.39		1.9283		1.605				38808.65
		1.797	0.26	0.93		3652.17		3586.17		0.06	0.00	3586.23	
03102	M				39.36		1.9272		1.587				42394.88
		0.063	0.00	-0.05		-392.73		-385.63		0.00	0.00	-385.63	
RU4	M				39.36		1.9273		1.586				42009.25
		13.716	0.29	3.69		-12917.89		-12684.51		0.47	0.64	-12683.40	

14.2 VAALIMAA 2003.47

38042	K				38.28		1.9140		1.551				38526.78
		0.529	-0.05	-0.04		-1815.40		-1782.56		0.00	0.00	-1782.56	
03104	K				38.29		1.9144		1.550				36744.23
		1.641	0.29	1.99		-9797.46		-9620.28		0.04	0.00	-9620.24	
03103	P				38.27		1.9157		1.539				27123.99

1	2	3	4	5	6	7	8	9	10	11	12	13	14
03103	P				38.27		1.9157		1.539				27123.99
		0.097	0.01	0.03		347.65		341.36		0.00	0.00	341.36	
RU5	M				38.27		1.9156		1.538				27465.35
		2.267	0.25	1.98		-11265.20		-11061.48		0.04	0.00	-11061.44	

INA A LIEKSA-INARI 2006.72

92107	K				49.71		2.1395		3.471				97174.39
		0.164	0.00	-0.22		-1351.67		-1327.53		0.01	-0.11	-1327.63	
92106	K				49.71		2.1392		3.470				95846.75
		1.760	-0.09	-0.09		4048.68		3976.36		0.13	0.00	3976.49	
AP0604	S				49.68		2.1385		3.450				99823.24
		2.688	-0.04	0.09		3562.13		3498.51		0.15	0.00	3498.66	
721754	P				49.65		2.1373		3.428				103321.91
		2.269	0.13	-0.33		9793.80		9618.86		0.04	0.00	9618.90	
721756	P				49.68		2.1373		3.422				112940.81
		1.152	-0.02	-0.27		-2677.38		-2629.55		0.02	0.00	-2629.53	
3724	M				49.70		2.1384		3.419				110311.28
		1.155	0.06	0.55		3693.89		3627.92		0.05	0.00	3627.97	
06201	K				49.70		2.1379		3.412				113939.25
		2.466	0.09	-1.35		14465.18		14206.78		0.15	0.00	14206.93	
662200A	M				49.69		2.1346		3.390				128146.17
		0.846	-0.01	-0.62		1388.97		1364.15		0.06	0.00	1364.21	
951376	M				49.68		2.1340		3.381				129510.38
		0.933	-0.03	-0.09		5188.08		5095.38		0.06	0.00	5095.44	
662200	M				49.67		2.1326		3.372				134605.82
		1.064	-0.02	-0.56		-2975.80		-2922.63		0.08	0.00	-2922.55	
951375	M				49.65		2.1327		3.360				131683.27
		1.020	-0.02	-0.42		717.36		704.54		0.08	0.00	704.62	
662199	M				49.63		2.1318		3.349				132387.89
		1.903	-0.05	0.77		4614.11		4531.66		0.16	0.00	4531.82	
951373	M				49.58		2.1288		3.325				136919.71
		1.065	0.05	-0.11		8993.86		8833.12		0.08	0.00	8833.20	
951372	M				49.55		2.1260		3.313				145752.91
		0.964	-0.02	-0.17		-16354.07		-16061.78		0.08	0.00	-16061.70	
662197	M				49.52		2.1286		3.301				129691.21
		1.237	-0.04	0.79		2141.03		2102.76		0.09	0.00	2102.85	
951371	M				49.51		2.1276		3.288				131794.05
		1.229	-0.01	0.27		25218.08		24767.31		0.07	0.00	24767.38	
662196	K				49.50		2.1225		3.277				156561.43
		0.959	-0.16	0.68		13853.98		13606.28		0.07	0.00	13606.35	
951370	M				49.49		2.1195		3.268				170167.78
		0.888	-0.11	0.79		14638.22		14376.46		0.05	0.00	14376.51	
662195	M				49.49		2.1164		3.260				184544.29
		1.073	-0.15	1.31		3461.37		3399.47		0.08	0.00	3399.55	
951369	M				49.48		2.1153		3.249				187943.84
		0.988	-0.03	0.88		-18818.36		-18481.84		0.06	0.00	-18481.78	
662194	K				49.47		2.1188		3.240				169462.06
		0.971	-0.07	-0.20		4382.64		4304.27		0.03	0.00	4304.30	
951368	M				49.48		2.1182		3.235				173766.36
		1.059	0.01	-0.01		-16557.73		-16261.68		0.02	0.00	-16261.66	
662193	M				49.49		2.1221		3.232				157504.70
		1.162	-0.03	0.29		8306.19		8157.69		0.01	0.00	8157.70	
951367	M				49.51		2.1211		3.230				165662.40
		0.887	0.03	0.34		-2636.08		-2588.95		0.02	0.00	-2588.93	
662192	M				49.52		2.1218		3.226				163073.47
		1.180	0.12	-0.10		-11466.79		-11261.80		0.00	0.00	-11261.80	
951366	M				49.55		2.1243		3.226				151811.66
		0.838	-0.06	-0.12		5666.40		5565.10		-0.01	0.00	5565.09	
662191	M				49.57		2.1230		3.228				157376.75
		0.952	-0.07	0.19		9063.01		8900.98		0.07	0.00	8901.05	
951365	P				49.55		2.1206		3.217				166277.80
		0.935	-0.10	-0.15		19752.31		19399.11		0.04	0.00	19399.15	
951364	M				49.55		2.1159		3.210				185676.95
		1.179	-0.04	0.58		-5069.39		-4978.73		0.07	0.00	-4978.66	
951363	K				49.55		2.1158		3.200				180698.29

1	2	3	4	5	6	7	8	9	10	11	12	13	14
951363	K				49.55		2.1158		3.200				180698.29
		1.056	-0.43	1.45		25802.92		25341.39		0.05	0.00	25341.44	
662189	K				49.55		2.1105		3.192				206039.73
		2.001	0.44	0.25		-12997.29		-12764.78		0.15	0.00	-12764.63	
662188	M				49.51		2.1120		3.171				193275.10
		0.804	-0.11	-0.17		9083.24		8920.75		0.07	0.00	8920.82	
951362	M				49.49		2.1089		3.160				202195.92
		1.200	0.04	-0.21		-4129.00		-4055.13		0.09	0.00	-4055.04	
662187	M				49.47		2.1086		3.146				198140.87
		0.759	0.02	0.15		-6150.72		-6040.68		0.04	0.00	-6040.64	
06212	K				49.47		2.1098		3.141				192100.23
		0.787	0.13	0.18		-12785.99		-12557.26		0.04	0.00	-12557.22	
06211	K				49.47		2.1122		3.135				179543.01
		1.992	0.05	1.07		-7607.57		-7471.49		0.16	0.00	-7471.33	
951360	M				49.43		2.1118		3.111				172071.68
		1.289	0.02	0.48		-4364.90		-4286.82		0.04	0.00	-4286.78	
662185	K				49.44		2.1116		3.105				167784.90
		1.344	0.01	0.63		4027.06		3955.02		0.02	0.00	3955.04	
676205	M				49.46		2.1106		3.103				171739.94
		1.063	0.27	0.80		3729.47		3662.75		0.03	0.00	3662.78	
06210	M				49.47		2.1100		3.099				175402.72
		1.269	-0.08	0.21		2802.63		2752.49		0.03	0.00	2752.52	
06209	M				49.49		2.1093		3.094				178155.24
		1.447	0.01	0.17		380.31		373.50		0.06	0.00	373.56	
676203	M				49.50		2.1085		3.085				178528.80
		1.762	-0.07	0.66		20860.56		20487.28		0.04	0.00	20487.32	
676202	M				49.52		2.1035		3.080				199016.13
		0.768	-0.37	0.96		32557.16		31974.39		-0.02	0.00	31974.37	
06208	K				49.54		2.0970		3.083				230990.49
		1.463	0.17	1.44		-21996.59		-21602.84		0.01	0.00	-21602.83	
676231	M				49.57		2.1017		3.082				209387.66
		1.833	0.08	0.84		-2191.98		-2152.75		0.06	0.00	-2152.69	
06207	K				49.58		2.1026		3.073				207234.97
		0.910	0.05	-0.14		-208.28		-204.55		-0.02	0.00	-204.57	
06206	M				49.60		2.1031		3.075				207030.40
		0.844	-0.33	0.97		43165.93		42393.22		0.00	0.00	42393.22	
06205	M				49.62		2.0950		3.076				249423.62
		0.912	0.09	0.80		-15883.95		-15599.57		0.04	0.00	-15599.53	
06204	K				49.63		2.0982		3.071				233824.09
		1.098	0.05	0.45		6431.07		6315.94		0.03	0.00	6315.97	
06203	K				49.63		2.0968		3.066				240140.07
		1.090	-0.04	0.47		-16157.87		-15868.62		0.03	0.00	-15868.59	
05216	K				49.64		2.0999		3.061				224271.48
		60.677	-0.68	14.18		129408.21		127094.44		2.77	-0.11	127097.10	

INA B INARI 2005.70

05216	K				49.64		2.0999		3.061				224271.48
		0.018	-0.01	0.06		556.79		546.82		0.00	0.00	546.82	
RU10	K				49.64		2.0998		3.061				224818.30
		0.018	-0.01	0.06		556.79		546.82		0.00	0.00	546.82	

JUN HALLASENAHO-LEHTOVAARA 2003.42

49057	K				57.22		2.2350		5.193				238454.62
		1.041	-0.11	2.93		-8667.61		-8513.64		0.02	-0.50	-8514.12	
94327	M				57.21		2.2366		5.188				229940.50
		1.626	0.08	-0.28		7532.79		7398.98		0.00	-0.45	7398.53	
03301	K				57.26		2.2363		5.189				237339.04
		0.260	0.02	0.02		1045.13		1026.57		0.00	-0.07	1026.50	
50005	K				57.27		2.2362		5.190				238365.53
		1.135	0.07	0.28		7046.91		6921.73		-0.01	0.00	6921.72	
AP239	M				57.31		2.2350		5.193				245287.25
		2.107	0.10	-0.19		-4894.30		-4807.36		0.05	0.00	-4807.31	
612231	K				57.30		2.2357		5.179				240479.94

1	2	3	4	5	6	7	8	9	10	11	12	13	14
612231	K				57.30		2.2357		5.179				240479.94
		1.547	-0.04	-0.89		-12219.83		-12002.79		0.03	0.00	-12002.76	
03302	M				57.28		2.2397		5.169				228477.19
		0.706	0.17	-0.24		10108.36		9928.83		0.01	0.00	9928.84	
612232	K				57.29		2.2388		5.165				238406.02
		1.721	0.03	0.97		-16047.47		-15762.50		0.04	0.00	-15762.46	
612233	K				57.28		2.2454		5.154				222643.56
		1.351	0.08	-0.22		-23576.37		-23157.85		0.03	0.00	-23157.82	
IV3612	M				57.28		2.2509		5.146				199485.75
		2.566	0.06	0.26		15465.89		15191.38		0.04	0.00	15191.42	
03303	K				57.31		2.2509		5.136				214677.17
		1.179	0.06	0.37		4389.71		4311.80		0.02	0.00	4311.82	
612235	K				57.32		2.2504		5.130				218988.99
		2.394	-0.08	1.11		32970.93		32385.60		0.02	0.00	32385.62	
612236	K				57.36		2.2439		5.123				251374.61
		1.291	-0.04	0.52		-15358.58		-15085.89		0.02	0.00	-15085.87	
612237	K				57.38		2.2463		5.117				236288.74
		0.710	-0.05	-0.67		-9790.43		-9616.62		0.01	0.00	-9616.61	
IV3616	K				57.39		2.2459		5.114				226672.13
		1.779	0.00	0.02		3906.03		3836.67		0.04	0.00	3836.71	
612238	K				57.38		2.2409		5.104				230508.85
		1.962	-0.74	0.13		-18764.63		-18431.39		0.04	0.00	-18431.35	
612239	K				57.38		2.2408		5.092				212077.50
		1.552	-0.17	0.88		-4658.71		-4575.97		0.03	0.00	-4575.94	
612240	K				57.35		2.2413		5.082				207501.55
		1.396	0.18	-0.13		-7972.65		-7831.07		0.03	0.00	-7831.04	
AP615	S				57.34		2.2420		5.073				199670.51
		0.785	-0.09	0.72		17572.07		17260.00		0.02	0.00	17260.02	
79M7920	K				57.33		2.2382		5.069				216930.53
		0.966	0.04	0.49		1644.47		1615.26		0.01	0.00	1615.27	
03304	M				57.30		2.2371		5.065				218545.80
		0.976	0.00	1.24		-8761.08		-8605.46		0.01	0.00	-8605.45	
IV3620	M				57.26		2.2387		5.063				209940.36
		1.142	0.18	0.17		-11158.41		-10960.22		0.03	0.00	-10960.19	
03305	K				57.25		2.2394		5.055				198980.17
		1.194	0.03	0.62		2877.82		2826.71		0.02	0.00	2826.73	
612456	M				57.26		2.2378		5.049				201806.89
		1.004	0.09	-0.40		8382.92		8234.01		0.01	0.00	8234.02	
03306	M				57.27		2.2357		5.047				210040.92
		1.044	-0.09	-0.18		-2310.32		-2269.28		0.01	0.00	-2269.27	
826141	M				57.29		2.2367		5.043				207771.65
		0.743	-0.08	0.55		11708.15		11500.16		0.02	0.00	11500.18	
03307	M				57.28		2.2351		5.038				219271.83
		1.308	0.15	-0.91		-10451.30		-10265.66		0.02	0.00	-10265.64	
826142	M				57.28		2.2395		5.031				209006.19
		1.171	0.04	-0.60		8631.34		8478.05		0.03	0.00	8478.08	
03308	K				57.27		2.2399		5.024				217484.26
		0.858	0.02	-0.10		-7544.07		-7410.09		0.02	0.00	-7410.07	
826143	M				57.26		2.2419		5.018				210074.19
		1.484	-0.01	-0.77		19997.29		19642.14		0.03	0.00	19642.17	
826144	M				57.26		2.2382		5.011				229716.36
		0.491	-0.04	-0.03		-10752.69		-10561.71		0.00	0.00	-10561.71	
03309	K				57.27		2.2405		5.011				219154.65
		0.826	-0.13	0.22		28051.55		27553.30		0.00	0.00	27553.30	
03310	M				57.30		2.2354		5.010				246707.94
		0.438	-0.26	-0.50		-17681.65		-17367.58		0.00	0.00	-17367.58	
RU3	P				57.31		2.2392		5.011				229340.36
		40.753	-0.53	5.39		-9278.75		-9113.89		0.65	-1.02	-9114.26	

O TOHMAJÄRVI-NIIRALA 2005.68

86205	K				45.25		2.0592		2.040				123125.61
		0.918	0.14	0.52		-11624.85		-11416.30		0.06	0.00	-11416.24	
PLAP1	M				45.23		2.0609		2.029				111709.37
		2.481	1.37	-1.79		35525.25		34887.82		0.13	0.00	34887.95	
05212	M				45.18		2.0529		2.006				146597.31

1	2	3	4	5	6	7	8	9	10	11	12	13	14
05212	M				45.18		2.0529		2.006				146597.31
		1.942	-0.04	0.25		-56674.92		-55658.13		0.08	0.00	-55658.05	
05213	K				45.17		2.0654		1.991				90939.26
		3.537	-0.06	-1.06		-3652.13		-3586.63		0.17	0.00	-3586.46	
PLAP5	M				45.10		2.0654		1.961				87352.81
		2.536	-0.24	0.00		10407.65		10220.98		0.12	0.00	10221.10	
05214	M				45.04		2.0624		1.940				97573.90
		3.202	-0.02	-0.10		-7298.18		-7167.28		0.14	0.00	-7167.14	
PLAP8	P				45.02		2.0640		1.916				90406.76
		3.455	0.20	-1.13		-5309.31		-5214.09		0.16	0.00	-5213.93	
PLAP10	M				44.98		2.0642		1.888				85192.83
		1.533	0.17	-0.04		-9445.24		-9275.84		0.06	0.00	-9275.78	
54160	K				44.98		2.0666		1.878				75917.05
		0.017	-0.01	-0.03		1291.31		1268.15		0.00	0.00	1268.15	
44002	K				44.98		2.0664		1.878				77185.20
		1.798	-0.47	-0.90		-4398.86		-4319.98		0.08	0.00	-4319.90	
05215	K				44.96		2.0679		1.864				72865.30
		0.545	0.06	-0.27		-3649.29		-3583.86		0.02	0.00	-3583.84	
RU11	P				44.95		2.0686		1.860				69281.47
		21.964	1.10	-4.55		-54828.58		-53845.16		1.02	0.00	-53844.14	

PAR PARIKKALA - KOLMIKANTA 2003.45

87008	K				42.40		2.0298		1.806				73679.65
		0.058	0.00	0.01		145.83		143.21		-0.02	-0.06	143.13	
87009	K				42.40		2.0298		1.813				73822.78
		0.922	0.04	0.78		125.57		123.32		0.05	-0.05	123.32	
66002	P				42.36		2.0286		1.797				73946.10
		1.143	0.01	1.32		4050.74		3977.94		0.02	-0.06	3977.90	
PAR2	K				42.35		2.0272		1.790				77924.00
		2.020	0.00	2.35		548.34		538.48		0.05	-0.25	538.28	
52150	K				42.29		2.0239		1.775				78462.28
		0.861	0.03	-0.37		-620.33		-609.18		0.02	-0.69	-609.85	
PAR3	K				42.28		2.0228		1.769				77852.43
		0.875	-0.11	0.39		-6137.80		-6027.46		0.02	0.55	-6026.89	
PAR4	K				42.28		2.0233		1.763				71825.53
		1.357	0.08	2.59		4085.36		4011.91		0.03	-0.17	4011.77	
2430	K				42.26		2.0224		1.753				75837.30
		1.141	0.15	0.54		2057.70		2020.70		0.04	-0.22	2020.52	
AP0802	M				42.24		2.0183		1.742				77857.82
		0.874	0.14	2.56		12122.44		11904.45		0.03	-0.17	11904.31	
2431	K				42.23		2.0185		1.734				89762.14
		1.578	-0.06	1.14		4619.40		4536.33		0.06	0.00	4536.39	
03106	M				42.17		2.0148		1.718				94298.53
		1.021	-0.07	0.47		-12164.15		-11945.40		0.03	0.00	-11945.37	
03101	P				42.14		2.0168		1.709				82353.16
		0.576	0.01	0.12		1049.11		1030.24		0.02	0.00	1030.26	
RU8273	P				42.12		2.0164		1.705				83383.42
		12.426	0.22	11.90		9882.21		9704.54		0.35	-1.12	9703.77	

T IVALO - VIRTANIEMI 2002.59

01205	K				69.75		2.5018		3.641				128990.45
		0.077	0.07	0.04		-8878.72		-8723.37		0.00	-0.08	-8723.45	
58141	K				69.75		2.5035		3.640				120267.01
		1.433	-0.07	1.32		2955.82		2904.11		0.05	0.03	2904.19	
AP0113	P				69.80		2.5029		3.620				123171.19
		1.791	-0.05	4.84		1712.75		1682.78		0.06	0.04	1682.88	
01206	S				69.85		2.5016		3.596				124854.07
		1.532	0.02	1.92		-4284.22		-4209.26		0.02	0.00	-4209.24	
632601	S				69.86		2.5035		3.587				120644.83
		1.737	-0.08	3.00		1499.99		1473.74		0.04	0.00	1473.78	
61239	M				69.88		2.5041		3.572				122118.61
		1.231	0.06	1.46		1994.73		1959.83		0.04	0.00	1959.87	
61240	K				69.91		2.5037		3.556				124078.48

1	2	3	4	5	6	7	8	9	10	11	12	13	14
61240	K				69.91		2.5037		3.556				124078.48
		1.252	-0.04	1.80		-3341.39		-3282.93		0.02	0.00	-3282.91	
02202	S				69.92		2.5031		3.547				120795.57
		2.172	0.11	2.35		5682.52		5583.09		0.05	0.00	5583.14	
61242	M				69.95		2.5017		3.529				126378.71
		1.666	-0.10	1.93		13837.27		13595.14		0.05	0.00	13595.19	
61243	M				69.98		2.4996		3.508				139973.90
		3.378	0.21	3.19		-6661.28		-6544.70		0.07	0.00	-6544.63	
AP0303	P				70.02		2.4989		3.480				133429.27
		1.784	0.04	0.87		1853.22		1820.79		0.02	0.00	1820.81	
61244	K				70.02		2.4988		3.473				135250.08
		1.534	0.03	0.30		12110.63		11898.68		0.05	0.00	11898.73	
61245	K				70.05		2.4975		3.456				147148.81
		1.648	-0.94	0.83		72944.97		71667.78		0.06	0.00	71667.84	
02203	K				70.09		2.4846		3.434				218816.65
		2.371	0.56	0.97		-73210.86		-71929.03		0.04	0.00	-71928.99	
02204	M				70.11		2.4977		3.418				146887.66
		1.357	-0.31	2.34		48040.13		47199.09		0.04	0.00	47199.13	
02205	K				70.13		2.4884		3.404				194086.79
		1.312	0.12	1.95		-9718.47		-9548.30		0.02	0.00	-9548.28	
02206	M				70.14		2.4900		3.394				184538.51
		1.441	0.18	2.53		-2268.76		-2229.04		0.04	0.00	-2229.00	
61251	M				70.17		2.4906		3.379				182309.51
		1.650	-1.11	2.22		55192.29		54225.65		0.04	0.00	54225.69	
61252	K				70.20		2.4812		3.362				236535.20
		1.305	0.69	0.13		-33192.38		-32611.00		0.03	0.00	-32610.97	
61253	M				70.22		2.4874		3.350				203924.23
		1.065	0.44	0.45		-43726.02		-42960.42		0.02	0.00	-42960.40	
61254	M				70.23		2.4945		3.343				160963.83
		1.756	0.16	-0.91		-23201.48		-22795.38		0.04	0.00	-22795.34	
61255	M				70.25		2.4986		3.329				138168.49
		1.933	-0.06	2.27		-7321.76		-7193.62		0.06	0.00	-7193.56	
61256	M				70.29		2.5000		3.306				130974.93
		1.806	-0.39	-0.25		20888.09		20522.53		0.06	0.00	20522.59	
61257	M				70.33		2.4977		3.282				151497.52
		1.765	0.13	0.08		-2498.10		-2454.38		0.05	0.00	-2454.33	
61258	K				70.37		2.5003		3.260				149043.19
		1.786	-0.56	0.30		39554.00		38861.69		0.06	0.00	38861.75	
61259	K				70.41		2.4942		3.239				187904.94
		1.447	0.67	-0.14		-42313.29		-41572.74		0.05	0.00	-41572.69	
61260	M				70.45		2.5025		3.218				146332.25
		1.545	0.18	0.33		-7437.07		-7306.94		0.05	0.00	-7306.89	
61261	M				70.47		2.5032		3.201				139025.37
		1.286	0.23	0.35		-12295.37		-12080.26		0.03	0.00	-12080.23	
02207	M				70.49		2.5055		3.190				126945.13
		1.609	0.16	1.19		-3468.43		-3407.76		0.03	0.00	-3407.73	
61262	M				70.50		2.5071		3.178				123537.41
		1.724	-0.18	1.71		9132.09		8972.33		0.06	0.00	8972.39	
61263	M				70.54		2.5048		3.156				132509.80
		1.180	0.17	1.66		-10953.42		-10761.80		0.03	0.00	-10761.77	
61264	M				70.56		2.5070		3.146				121748.02
		1.190	-0.07	1.15		10709.12		10521.78		0.02	0.00	10521.80	
KP47	K				70.57		2.5050		3.138				132269.82
		0.643	0.04	0.37		-1466.46		-1440.80		0.02	0.00	-1440.78	
61265	K				70.58		2.5062		3.129				130829.05
		1.443	-0.03	0.95		-4538.14		-4458.76		0.05	0.00	-4458.71	
61266	K				70.62		2.5077		3.110				126370.34
		1.062	-0.08	1.17		1337.98		1314.58		0.04	0.00	1314.62	
61267	K				70.65		2.5082		3.096				127684.96
		0.020	-0.01	-0.01		1596.62		1568.69		0.00	0.00	1568.69	
61268	K				70.65		2.5078		3.096				129253.65
		0.016	0.00	-0.05		170.91		167.92		0.00	0.00	167.92	
61269	K				70.65		2.5077		3.096				129421.57
		1.370	-0.09	0.83		-3870.38		-3802.68		0.04	0.00	-3802.64	
02208	P				70.68		2.5086		3.080				125618.93

1	2	3	4	5	6	7	8	9	10	11	12	13	14
02208	P				70.68		2.5086		3.080				125618.93
		0.070	0.01	0.05		-39.72		-39.03		0.00	0.00	-39.03	
RU1	P				70.68		2.5086		3.080				125579.90
		55.387	0.11	45.49		-3472.57		-3412.00		1.45	-0.01	-3410.56	

Z A JOUTSIJÄRVI-KELLOSELKÄ 2003.63

50212	K				62.83		2.3400		5.503				162180.45
		0.874	0.00	0.26		-3118.87		-3063.80		0.01	0.87	-3062.92	
96312	S				62.82		2.3411		5.500				159117.54
		0.810	-0.02	-0.82		2004.30		1968.91		0.01	0.00	1968.92	
50214	M				62.82		2.3406		5.498				161086.45
		0.180	0.01	0.19		2959.45		2907.19		0.00	0.00	2907.19	
50215	M				62.81		2.3402		5.498				163993.64
		1.702	-0.07	0.36		-7641.03		-7506.10		0.03	0.00	-7506.07	
03137	S				62.81		2.3412		5.491				156487.57
		1.502	0.21	0.24		12971.56		12742.48		0.03	0.00	12742.51	
03136	K				62.82		2.3374		5.483				169230.08
		2.072	0.57	0.16		10762.80		10572.68		0.04	0.00	10572.72	
03135	M				62.85		2.3341		5.471				179802.80
		2.140	0.29	0.36		-871.99		-856.58		0.04	0.00	-856.54	
03134	M				62.90		2.3341		5.459				178946.26
		1.634	0.11	1.11		-4950.16		-4862.71		0.03	0.00	-4862.68	
03133	M				62.94		2.3338		5.450				174083.58
		1.449	-0.03	0.56		-3484.88		-3423.31		0.03	0.00	-3423.28	
03132	M				62.98		2.3335		5.442				170660.30
		1.204	-0.01	0.30		602.30		591.65		0.02	0.00	591.67	
03131	S				63.02		2.3328		5.437				171251.97
		1.335	0.03	0.39		12708.31		12483.77		0.03	0.00	12483.80	
03130	M				63.05		2.3304		5.430				183735.78
		1.360	-0.04	-0.30		939.56		922.96		0.02	0.00	922.98	
03129	M				63.09		2.3294		5.423				184658.76
		1.252	0.04	0.30		24414.02		23982.54		0.02	0.00	23982.56	
03128	M				63.12		2.3241		5.416				208641.32
		1.522	-0.47	-0.04		12023.75		11811.20		0.03	0.00	11811.23	
582306	M				63.15		2.3214		5.407				220452.55
		2.263	0.99	-0.31		32532.92		31957.67		0.04	0.00	31957.71	
582307	M				63.17		2.3147		5.395				252410.26
		1.182	0.27	-0.70		10513.13		10327.19		0.02	0.00	10327.21	
03127	K				63.18		2.3126		5.389				262737.47
		1.157	-0.33	1.62		-18066.11		-17746.60		0.02	0.00	-17746.58	
03126	K				63.21		2.3163		5.382				244990.89
		2.039	0.03	0.36		-20236.89		-19879.07		0.04	0.00	-19879.03	
03125	M				63.24		2.3198		5.371				225111.87
		1.214	-0.22	1.32		-9976.76		-9800.37		0.03	0.00	-9800.34	
03124	M				63.26		2.3194		5.364				215311.52
		1.650	-0.13	0.70		-22750.01		-22347.80		0.03	0.00	-22347.77	
03123	K				63.27		2.3217		5.355				192963.75
		0.855	0.30	0.25		11035.75		10840.64		0.01	0.00	10840.65	
582311	K				63.27		2.3191		5.351				203804.40
		0.872	-0.13	0.49		-7834.37		-7695.86		-0.01	0.00	-7695.87	
03122	S				63.26		2.3205		5.354				196108.54
		1.950	-0.14	0.52		1834.29		1801.86		0.04	0.00	1801.90	
03121	S				63.23		2.3212		5.343				197910.44
		1.191	-0.03	0.73		2966.81		2914.36		0.01	0.00	2914.37	
582313	M				63.22		2.3209		5.340				200824.80
		1.772	0.46	0.55		21627.25		21244.86		0.03	0.00	21244.89	
03120	M				63.24		2.3168		5.330				222069.69
		1.493	0.65	1.64		28884.38		28373.54		0.03	0.00	28373.57	
03119	M				63.27		2.3115		5.322				250443.26
		1.577	0.00	1.60		-2300.28		-2259.60		0.03	0.00	-2259.57	
03118	K				63.29		2.3125		5.313				248183.69
		0.683	-0.06	1.14		-8758.99		-8604.07		0.01	0.00	-8604.06	
582316	M				63.29		2.3141		5.311				239579.63
		0.766	-0.41	0.66		-9885.84		-9711.01		0.02	0.00	-9710.99	
03117	M				63.31		2.3158		5.306				229868.63

1	2	3	4	5	6	7	8	9	10	11	12	13	14
03117	M				63.31		2.3158		5.306				229868.63
		1.407	-0.67	1.46		-12354.51		-12136.04		0.03	0.00	-12136.01	
582317	M				63.32		2.3175		5.299				217732.63
		2.164	-0.09	0.64		-12357.17		-12138.69		0.04	0.00	-12138.65	
03116	S				63.36		2.3201		5.287				205593.97
		1.428	-0.03	1.25		3595.50		3531.93		0.03	0.00	3531.96	
03115	M				63.39		2.3189		5.280				209125.93
		1.593	0.00	0.30		2118.14		2080.69		0.03	0.00	2080.72	
03114	M				63.43		2.3171		5.271				211206.65
		0.817	0.00	0.12		16488.50		16196.92		0.01	0.00	16196.93	
03113	M				63.45		2.3136		5.267				227403.58
		1.018	-0.04	1.03		-249.92		-245.50		0.02	0.00	-245.48	
03112	M				63.48		2.3134		5.261				227158.10
		1.569	0.08	0.59		-5365.57		-5270.67		0.03	0.00	-5270.64	
582363	S				63.52		2.3145		5.253				221887.46
		1.776	0.36	0.40		-7395.72		-7264.93		0.03	0.00	-7264.90	
03111	M				63.57		2.3169		5.243				214622.56
		2.465	0.01	0.25		3617.50		3553.54		0.05	0.00	3553.59	
03110	M				63.62		2.3170		5.229				218176.15
		1.376	0.16	0.21		-15355.73		-15084.22		0.03	0.00	-15084.19	
03109	M				63.66		2.3204		5.222				203091.96
		2.005	0.04	1.06		13252.67		13018.35		0.04	0.00	13018.39	
03108	M				63.69		2.3180		5.211				216110.35
		1.524	-0.21	-0.05		-814.17		-799.78		0.03	0.00	-799.75	
02218	K				63.71		2.3190		5.203				215310.60
		58.842	1.48	20.90		54083.92		53128.22		1.06	0.87	53130.15	

Z B KELLOSELKÄ - SIIKASELKÄ 2002.73

02218	K				63.71		2.3190		5.203				215310.60
		0.010	0.00	0.01		-305.96		-300.55		0.00	0.00	-300.55	
02219	K				63.71		2.3191		5.203				215010.05
		1.598	0.55	1.03		-22335.59		-21940.77		0.02	0.00	-21940.75	
02220	M				63.71		2.3267		5.196				193069.30
		1.038	-0.19	0.89		-10312.08		-10129.85		0.01	0.00	-10129.84	
02221	S				63.73		2.3312		5.190				182939.47
		2.058	-0.54	2.03		18760.61		18429.16		0.03	0.00	18429.19	
02210	M				63.74		2.3333		5.181				201368.66
		0.043	0.00	-0.02		177.82		174.68		0.00	0.00	174.68	
02211	M				63.74		2.3332		5.181				201543.34
		0.078	-0.01	-0.02		-4939.13		-4851.87		0.00	0.00	-4851.87	
02212	M				63.74		2.3341		5.181				196691.47
		2.456	0.60	6.70		28540.09		28035.83		0.03	0.00	28035.86	
02209	P				63.74		2.3288		5.171				224727.33
		0.879	0.00	2.17		7259.83		7131.54		0.01	0.00	7131.55	
RU2	P				63.75		2.3274		5.166				231858.88
		8.160	0.41	12.79		16845.60		16548.18		0.10	0.00	16548.28	

KAN A KANGASALAN FAULT LINE 1987.79

81217	K				42.04		1.9945		4.389				107847.11
		0.044	0.02	0.10		1096.87		1077.12		0.00	0.14	1077.26	
58001	K				42.04		1.9943		4.390				108924.36
		0.714	0.18	-0.63		7495.16		7360.20		-0.03	1.08	7361.25	
VAT1	M				42.05		1.9937		4.387				116285.62
		0.848	0.19	-0.03		11691.23		11480.71		-0.04	1.29	11481.96	
58002	K				42.06		1.9919		4.384				127767.57
		0.020	0.00	-0.18		401.09		393.87		0.01	0.01	393.89	
87216	K				42.06		1.9918		4.385				128161.46
		1.146	0.06	-1.68		4179.28		4104.02		0.03	0.41	4104.46	
87217	K				42.09		1.9915		4.387				132265.92
		0.514	-0.10	-0.06		-5612.74		-5511.67		-0.01	0.18	-5511.50	
973	K				42.10		1.9928		4.386				126754.42
		0.008	0.00	-0.40		283.25		278.15		0.00	-0.01	278.14	
59001	M				42.10		1.9927		4.386				127032.56

1	2	3	4	5	6	7	8	9	10	11	12	13	14
59001	M				42.10		1.9927		4.386				127032.56
		0.638	0.05	0.56		-5732.09		-5628.88		-0.02	-0.96	-5629.86	
87218	K				42.11		1.9942		4.384				121402.70
		0.642	-0.02	-0.87		-373.55		-366.83		0.04	-0.97	-367.76	
59002	K				42.13		1.9922		4.387				121034.94
		4.574	0.38	-3.19		13428.49		13186.69		-0.02	1.17	13187.84	

KAU A KAUNISLAHTI FAULT LINE 1992.79

2207	K				35.93		1.9163		2.589				20124.32
		1.552	0.08	-1.04		88.20		86.60		0.10	-0.34	86.36	
2208	K				35.93		1.9164		2.603				20210.67
		1.684	0.87	-0.01		10778.09		10583.17		0.11	-0.23	10583.05	
92003	K				35.94		1.9142		2.619				30793.73
		1.156	0.15	-1.68		5458.60		5359.88		0.09	-0.15	5359.82	
92004	S				35.94		1.9129		2.632				36153.54
		1.217	-0.09	0.31		-991.09		-973.16		0.08	-0.16	-973.24	
35018	K				35.96		1.9136		2.642				35180.30
		0.139	0.04	0.24		4226.06		4149.62		0.00	-0.17	4149.45	
92005	K				35.95		1.9127		2.642				39329.76
		1.835	0.08	1.42		-12678.14		-12448.85		0.17	-2.21	-12450.89	
2211	K				35.99		1.9157		2.666				26878.86
		1.902	0.49	0.09		15203.18		14928.21		0.09	2.11	14930.41	
91001	K				35.98		1.9114		2.679				41809.27
		0.340	-0.03	-0.27		-38.17		-37.48		0.02	0.38	-37.08	
92	K				35.99		1.9115		2.682				41772.19
		9.825	1.59	-0.94		22046.75		21648.00		0.66	-0.77	21647.89	

LAI A LAITILA FAULT LINE 1993.75

1660	K				39.28		1.9462		4.624				21399.70
		1.194	0.07	2.12		2001.31		1965.17		0.12	0.25	1965.54	
93348	K				39.31		1.9462		4.643				23365.25
		0.752	-0.12	1.36		-3544.99		-3480.99		0.05	0.16	-3480.78	
51014	M				39.32		1.9470		4.651				19884.46
		1.695	0.59	2.41		3840.50		3771.17		0.16	-0.22	3771.11	
1662	K				39.35		1.9471		4.677				23655.57
		0.924	-0.14	0.83		3683.75		3617.24		0.09	0.20	3617.53	
93349	K				39.38		1.9470		4.691				27273.10
		1.056	0.06	0.67		-1326.39		-1302.44		0.09	0.23	-1302.12	
1663	K				39.40		1.9479		4.705				25970.98
		0.665	-0.03	0.37		-1896.79		-1862.55		0.07	0.14	-1862.34	
7	K				39.42		1.9487		4.716				24108.64
		1.951	-0.39	2.86		-9193.51		-9027.57		0.18	0.53	-9026.86	
81106	K				39.45		1.9513		4.744				15081.77
		1.487	-0.03	1.38		-574.27		-563.91		0.06	0.03	-563.82	
22	K				39.50		1.9515		4.754				14517.95
		1.826	0.50	2.09		5432.15		5334.11		0.18	-0.21	5334.08	
1666	K				39.56		1.9520		4.783				19852.03
		11.550	0.51	14.09		-1578.24		-1549.77		1.00	1.11	-1547.66	

KUT A KUTTANEN FAULT LINE 2000.67

IV5817	K				68.76		2.4491		4.383				291363.28
		0.017	-0.03	0.05		1754.57		1723.78		0.00	-0.08	1723.70	
99304	K				68.76		2.4490		4.383				293086.98
		1.522	0.02	-0.26		5828.48		5726.19		0.02	-0.25	5725.96	
KUTAP5	M				68.80		2.4493		4.361				298812.94
		1.990	-0.09	0.72		2272.72		2232.83		0.01	-0.32	2232.52	
57103	K				68.83		2.4462		4.340				301045.45
		1.516	0.06	-0.66		442.66		434.89		0.02	-0.37	434.54	
99322	K				68.87		2.4466		4.318				301479.99
		1.258	-0.15	0.69		2621.30		2575.29		0.01	-0.72	2574.58	
57104	K				68.90		2.4447		4.301				304054.57

1	2	3	4	5	6	7	8	9	10	11	12	13	14
57104	K				68.90		2.4447		4.301				304054.57
		0.935	-0.21	-0.09		25864.98		25410.85		0.01	-0.13	25410.73	
896211	M				68.93		2.4396		4.287				329465.30
		0.788	0.34	-0.37		-27863.91		-27374.68		0.01	-0.27	-27374.94	
57105	M				68.94		2.4446		4.276				302090.37
		1.493	-0.06	-0.43		7773.28		7636.81		0.01	-0.42	7636.40	
99305	K				68.98		2.4431		4.254				309726.77
		3.154	-0.22	0.22		18358.84		18036.47		0.03	-0.23	18036.27	
57107	K				69.05		2.4386		4.212				327763.04
		12.673	-0.34	-0.13		37052.93		36402.44		0.12	-2.79	36399.77	

LAH A LAHTI FAULT LINE 1991.78

62033	K				39.82		1.9537		2.924				82164.80
		1.639	0.74	1.02		6169.03		6057.70		-0.10	-0.08	6057.52	
356	K				39.83		1.9524		2.913				88222.32
		1.639	0.74	1.02		6169.03		6057.70		-0.10	-0.08	6057.52	

MYN A MYNÄMÄKI FAULT LINE 1993.74

1654	K				38.94		1.9385		4.449				44356.38
		1.781	-0.03	1.91		-4844.98		-4757.48		0.18	-0.23	-4757.53	
1655	K				38.98		1.9413		4.477				39598.85
		1.781	-0.03	1.91		-4844.98		-4757.48		0.18	-0.23	-4757.53	

PAR A FAULT LINE PARIKKALA 1988.78

87008	K				42.40		2.0298		1.806				73679.65
		0.020	0.00	-0.25		145.65		143.03		0.07	0.03	143.13	
87009	K				42.40		2.0298		1.813				73822.78
		0.766	-0.03	0.64		141.79		139.24		-0.16	-0.07	139.01	
66002.1	P				42.37		2.0287		1.799				73961.79
		0.953	0.03	-1.49		4034.91		3962.39		-0.10	-0.08	3962.21	
PAR2	K				42.35		2.0272		1.790				77924.00
		1.872	-0.07	1.35		548.08		538.23		-0.17	0.22	538.28	
52150	K				42.29		2.0239		1.775				78462.28
		0.796	-0.01	0.00		-621.65		-610.48		-0.07	0.70	-609.85	
PAR3	K				42.28		2.0228		1.769				77852.43
		0.872	0.02	-1.56		-6136.86		-6026.54		-0.06	-0.29	-6026.89	
PAR4	K				42.28		2.0233		1.763				71825.53
		1.138	0.07	-1.07		4084.90		4011.47		-0.11	0.41	4011.77	
2430	K				42.26		2.0224		1.753				75837.30
		1.968	0.10	-2.67		14178.21		13923.29		-0.22	1.77	13924.84	
2431	K				42.23		2.0185		1.734				89762.14
		8.385	0.11	-5.05		16375.02		16080.61		-0.82	2.69	16082.48	

PAR B FAULT LINE PARIKKALA 1992.77

87008	K				42.40		2.0298		1.806				73679.65
		0.020	0.00	0.23		145.72		143.10		0.05	-0.02	143.13	
87009	K				42.40		2.0298		1.813				73822.78
		0.796	-0.01	0.41		136.65		134.20		-0.10	0.11	134.21	
66002.2	P				42.37		2.0287		1.799				73957.00
		0.990	0.07	-1.54		4039.52		3966.92		-0.06	0.14	3967.00	
PAR2	K				42.35		2.0272		1.790				77924.00
		1.890	0.04	0.24		548.24		538.39		-0.11	0.00	538.28	
52150	K				42.29		2.0239		1.775				78462.28
		0.748	0.00	-0.46		-620.93		-609.76		-0.04	-0.05	-609.85	
PAR3	K				42.28		2.0228		1.769				77852.43
		0.884	-0.21	-1.17		-6136.90		-6026.58		-0.04	-0.27	-6026.89	
PAR4	K				42.28		2.0233		1.763				71825.53
		1.156	0.32	-1.64		4085.54		4012.10		-0.07	-0.26	4011.77	
2430	K				42.26		2.0224		1.753				75837.30

1	2	3	4	5	6	7	8	9	10	11	12	13	14
2430	K				42.26		2.0224		1.753				75837.30
		2.144	0.61	-0.11		14181.48		13926.50		-0.14	-1.52	13924.84	
2431	K				42.23		2.0185		1.734				89762.14
		8.628	0.82	-4.04		16379.31		16084.85		-0.51	-1.87	16082.47	

PER A PERNIÖ FAULT LINE 1993.76

89001	K				36.64		1.9209		3.131				34134.94
		1.371	0.00	-0.37		-1579.87		-1551.31		0.12	0.00	-1551.19	
276	K				36.69		1.9234		3.149				32583.75
		0.558	-0.05	0.04		-6903.49		-6778.71		0.05	0.18	-6778.48	
PERAP1	K				36.70		1.9252		3.157				25805.28
		1.575	-0.23	-0.59		-8465.42		-8312.43		0.13	0.52	-8311.78	
277	K				36.73		1.9278		3.177				17493.50
		3.504	-0.28	-0.92		-16948.78		-16642.45		0.30	0.70	-16641.45	

PUT A PUTIKKO FAULT LINE 1991.81

52148	K				43.17		2.0429		2.019				81617.68
		1.960	0.04	0.31		-1015.88		-997.64		-0.10	-0.07	-997.81	
2418	K				43.10		2.0421		2.006				80619.87
		2.514	-0.10	-1.79		-2553.35		-2507.51		-0.19	1.52	-2506.18	
2419	K				43.01		2.0410		1.983				78113.69
		2.261	1.66	-1.17		20566.10		20196.72		-0.19	0.39	20196.92	
78009	K				42.95		2.0372		1.959				98310.61
		6.735	1.60	-2.65		16996.86		16691.57		-0.48	1.84	16692.93	

SAA A SAARI FAULT LINE 1990.78

54110	K				43.03		2.0319		1.870				100097.46
		1.152	0.25	0.63		5345.60		5249.54		-0.08	0.61	5250.07	
54109.1	M				42.99		2.0301		1.862				105347.53
		1.444	-0.86	-0.31		-26358.08		-25884.48		-0.05	0.76	-25883.77	
54108.1	M				42.94		2.0344		1.856				79463.76
		2.644	1.11	2.18		15633.27		15352.39		-0.05	1.40	15353.74	
85103.1	K				42.86		2.0309		1.851				94817.50
		1.305	-0.31	1.75		-9532.55		-9361.27		-0.09	0.69	-9360.67	
54106.1	M				42.82		2.0318		1.841				85456.82
		1.452	-0.31	1.31		-9828.60		-9652.01		0.03	0.77	-9651.21	
54105	K				42.79		2.0345		1.845				75805.62
		7.997	-0.12	5.56		-24740.36		-24295.83		-0.24	4.23	-24291.84	

SAV A SAVONLINNA FAULT LINE 1991.81

61001	K				43.73		2.0565		2.400				80717.49
		1.060	0.40	-1.03		3816.14		3747.67		-0.07	0.56	3748.16	
18	K				43.73		2.0562		2.392				84465.66
		0.630	-0.37	0.49		-5642.04		-5540.80		-0.06	0.07	-5540.79	
SKP43	P				43.72		2.0570		2.385				78924.87
		0.680	-0.07	-0.42		-1604.85		-1576.05		-0.05	-0.20	-1576.30	
2401	K				43.70		2.0567		2.378				77348.58
		1.525	0.39	0.28		8453.51		8301.82		-0.14	-0.02	8301.66	
101	K				43.68		2.0547		2.361				85650.23
		0.684	-0.07	-0.04		-1236.74		-1214.54		-0.06	-0.94	-1215.54	
112	K				43.67		2.0549		2.353				84434.69
		0.720	-0.13	-1.04		-3652.45		-3586.92		-0.07	0.88	-3586.11	
64010	K				43.66		2.0547		2.344				80848.58
		1.417	0.45	-2.05		11510.32		11303.75		-0.12	0.67	11304.30	
67012	K				43.65		2.0508		2.329				92152.88
		0.632	-0.10	-0.94		-2908.58		-2856.38		-0.06	-0.20	-2856.64	
179	K				43.64		2.0511		2.321				89296.24
		7.348	0.50	-4.75		8735.31		8578.56		-0.63	0.82	8578.75	

1	2	3	4	5	6	7	8	9	10	11	12	13	14
KOI A FAULT LINE KOITSANLAHTI 1991.79													
66012	K				41.80		2.0170		1.718				67748.26
		3.099	1.11	-1.33		10371.17		10184.65		-0.06	-1.65	10182.94	
52156	K				41.84		2.0153		1.711				77931.20
		2.944	1.43	-1.60		23508.18		23085.37		0.07	-0.06	23085.38	
52155	K				41.93		2.0132		1.719				101016.58
		1.556	-1.12	-0.57		-15280.05		-15005.25		0.09	0.52	-15004.64	
74010	M				41.99		2.0175		1.731				86011.94
		0.039	-0.02	0.18		-578.91		-568.50		0.00	0.01	-568.49	
52154	M				41.99		2.0176		1.731				85443.45
		2.444	-0.77	-1.20		-11273.58		-11070.87		0.05	1.07	-11069.75	
52153	K				42.06		2.0198		1.736				74373.70
		2.192	0.64	0.83		7867.54		7726.08		0.12	1.59	7727.79	
65025	K				42.14		2.0198		1.751				82101.48
		2.091	-0.89	-0.03		-8744.72		-8587.50		0.06	2.35	-8585.09	
52151	K				42.21		2.0221		1.759				73516.39
		2.228	0.23	0.08		5036.86		4946.32		0.13	-0.56	4945.89	
52150	K				42.29		2.0239		1.775				78462.28
		16.593	0.61	-3.64		10906.49		10710.30		0.46	3.27	10714.03	
TUR A TURKU FAULT LINE 1993.75													
80135	K				37.75		1.9475		3.863				19831.30
		0.037	0.00	0.07		-2271.82		-2230.80		0.00	0.01	-2230.79	
254	K				37.75		1.9480		3.863				17600.51
		2.505	-0.09	0.34		-6060.23		-5950.82		-0.11	-1.26	-5952.19	
37029	K				37.67		1.9466		3.845				11648.32
		1.446	0.12	0.85		9834.22		9656.67		0.02	0.01	9656.70	
454	K				37.64		1.9443		3.848				21305.02
		1.459	-0.01	-0.47		-3719.01		-3651.86		0.09	-0.52	-3652.29	
2350	K				37.67		1.9446		3.862				17652.73
		1.662	-0.04	-0.45		-2215.38		-2175.38		0.12	-0.59	-2175.85	
81101	K				37.70		1.9449		3.882				15476.88
		1.832	0.10	2.31		6067.27		5957.72		0.13	-0.31	5957.54	
1634	K				37.72		1.9437		3.902				21434.43
		1.244	-0.38	-0.05		-6172.38		-6060.93		0.10	0.01	-6060.82	
1635	K				37.75		1.9446		3.918				15373.61
		10.185	-0.30	2.60		-4537.32		-4455.39		0.35	-2.65	-4457.69	
URJ A URJALA FAULT LINE 1991.81													
184	K				40.56		1.9677		3.967				101959.38
		2.192	0.16	1.38		7039.27		6912.33		0.02	0.52	6912.87	
36015.1	M				40.52		1.9659		3.970				108872.25
		1.495	0.08	0.24		-2705.07		-2656.29		0.00	0.35	-2655.94	
80212	K				40.49		1.9670		3.970				106216.31
		0.493	0.01	-0.29		-2738.17		-2688.80		0.00	-0.12	-2688.92	
36016.1	M				40.47		1.9675		3.970				103527.40
		1.860	-0.16	1.28		-3167.04		-3109.93		0.05	-0.44	-3110.32	
36017.1	P				40.44		1.9679		3.976				100417.09
		2.074	-0.04	-0.50		-3815.32		-3746.54		-0.07	-0.49	-3747.10	
65003.1	R				40.38		1.9690		3.967				96669.99
		2.177	-0.12	-2.70		-2117.35		-2079.17		-0.09	-0.51	-2079.77	
65004.1	R				40.31		1.9679		3.956				94590.23
		1.116	0.14	-0.18		8319.60		8169.57		-0.06	-0.26	8169.25	
190	K				40.27		1.9661		3.949				102759.47
		0.407	0.13	-0.28		2018.12		1981.72		-0.02	-0.03	1981.67	
68021.1	P				40.25		1.9647		3.947				104741.16
		1.354	-0.01	0.09		4287.81		4210.47		-0.08	-0.09	4210.30	
36020	K				40.21		1.9623		3.937				108951.44
		1.504	-0.09	0.12		15276.04		15000.45		-0.11	0.32	15000.66	
36021	K				40.15		1.9560		3.924				123952.11
		14.672	0.10	-0.84		22397.91		21993.83		-0.36	-0.75	21992.72	

1	2	3	4	5	6	7	8	9	10	11	12	13	14
						18.2 Z MYNÄMÄKI GPS 2002.62							
1654	K				38.94		1.9385		4.449				44356.38
		0.188	0.00			-1812.51		-1779.77		-0.01	0.00	-1779.78	
02002	K				38.94		1.9388		4.452				42576.61
		0.188	0.00	0.00		-1812.51		-1779.77		-0.01	0.00	-1779.78	
						20.1 Z TAMPERE GPS 2005.44							
98006	K				42.15		1.9939		4.517				100968.32
		0.029	-0.06	0.11		4776.82		4690.81		0.00	0.00	4690.81	
05211	K				42.15		1.9930		4.516				105659.13
		0.029	-0.06	0.11		4776.82		4690.81		0.00	0.00	4690.81	
						27.2 Z VAAJAKOSKI GPS 2005.43							
39052	K				45.27		2.0530		4.322				83435.93
		0.197	-0.03	0.14		-1996.48		-1960.65		0.01	0.00	-1960.64	
05209	M				45.27		2.0533		4.320				81475.29
		0.197	-0.03	0.14		-1996.48		-1960.65		0.01	0.00	-1960.64	
						29 Z SÄRKISALMI GPS 2005.41							
76004	K				42.54		2.0345		1.845				71187.09
		0.307	0.24	-0.07		5999.94		5892.15		0.00	0.00	5892.15	
05202	K				42.54		2.0333		1.844				77079.24
		0.307	0.24	-0.07		5999.94		5892.15		0.00	0.00	5892.15	
						42 Z TOIVALA GPS 2005.42							
54204	K				48.31		2.1078		4.183				98563.24
		0.111	0.04	0.05		3601.24		3536.80		0.00	0.00	3536.80	
05203	K				48.30		2.1071		4.182				102100.05
		0.111	0.04	0.05		3601.24		3536.80		0.00	0.00	3536.80	
						45 Z KONTIOMÄKI GPS 2005.42							
91325	K				53.59		2.1824		5.169				145146.29
		0.027	0.01	0.02		1475.71		1449.42		0.00	0.00	1449.42	
05205	K				53.59		2.1821		5.169				146595.71
		0.027	0.01	0.02		1475.71		1449.42		0.00	0.00	1449.42	
						47 Z YLIVIESKA 2005.43							
1264	K				52.83		2.1775		6.749				71753.94
		0.111	0.00	-0.03		791.89		777.78		-0.01	0.00	777.77	
05208	K				52.83		2.1775		6.750				72531.71
		0.111	0.00	-0.03		791.89		777.78		-0.01	0.00	777.77	
						51 Z PUDASJÄRVI GPS 2005.42							
95301	K				57.95		2.2481		5.978				124929.08
		0.146	0.19	-0.01		2830.71		2780.45		0.00	0.00	2780.45	
05206	K				57.95		2.2476		5.979				127709.53
		0.146	0.19	-0.01		2830.71		2780.45		0.00	0.00	2780.45	

1	2	3	4	5	6	7	8	9	10	11	12	13	14
						55 Z ROVANIEMI GPS 2005.43							
HT1916	K				62.12		2.3450		6.164				76357.11
		0.026	0.01	-0.05		-1856.12		-1823.35		0.00	0.00	-1823.35	
05207	K				62.12		2.3454		6.164				74533.76
		0.026	0.01	-0.05		-1856.12		-1823.35		0.00	0.00	-1823.35	
						76 Z PARKANO GPS 2005.43							
76237	K				44.35		2.0062		5.508				150093.89
		0.026	-0.02	0.06		3001.35		2947.34		0.00	0.00	2947.34	
05210	K				44.35		2.0056		5.508				153041.23
		0.026	-0.02	0.06		3001.35		2947.34		0.00	0.00	2947.34	
						KOR Z KOUVOLA GPS 2005.41							
90004	K				39.33		1.9206		2.317				65614.46
		0.035	0.03	0.00		1287.01		1263.74		0.00	0.00	1263.74	
05201	K				39.33		1.9203		2.316				66878.20
		0.035	0.03	0.00		1287.01		1263.74		0.00	0.00	1263.74	
						80 Z VAALA GPS 2005.42							
3821	K				54.23		2.1891		5.816				131175.76
		0.132	-0.10	-0.08		-1420.69		-1395.39		-0.01	0.00	-1395.40	
05204	K				54.23		2.1894		5.817				129780.36
		0.132	-0.10	-0.08		-1420.69		-1395.39		-0.01	0.00	-1395.40	
						1 P MAINTENANCE MEASUREMENT ILMALA 1998.46							
78016	K				36.56		1.9060		2.318				20465.52
		0.023	0.00	-0.28		1515.89		1488.46		0.00	0.00	1488.46	
98002	K				36.56		1.9058		2.318				21953.98
		0.023	0.00	-0.28		1515.89		1488.46		0.00	0.00	1488.46	
						1 Q MAINTENANCE MEASUREMENT HUOPALAHTI 1998.65							
73002	K				36.61		1.9110		2.345				19760.12
		0.060	0.07	-0.16		2579.13		2532.48		0.00	0.00	2532.48	
98004	K				36.61		1.9105		2.345				22292.60
		0.060	0.07	-0.16		2579.13		2532.48		0.00	0.00	2532.48	
						2 P MAINTENANCE MEASUREMENT MELTOLASSA I 1994.45							
79103	K				36.05		1.9108		2.685				51215.93
		0.017	0.00	0.12		-223.67		-219.62		0.00	0.00	-219.62	
94103	K				36.05		1.9108		2.685				50996.31
		0.017	0.00	0.12		-223.67		-219.62		0.00	0.00	-219.62	
						2 Q MAINTENANCE MEASUREMENT KARJAA 1994.45							
92	K				35.99		1.9115		2.682				41772.19
		0.028	0.03	0.15		1440.48		1414.43		0.00	0.00	1414.43	
94104	K				35.99		1.9112		2.682				43186.62
		0.028	0.03	0.15		1440.48		1414.43		0.00	0.00	1414.43	

1	2	3	4	5	6	7	8	9	10	11	12	13	14
					2 R MAINTENANCE MEASUREMENT MUSTIO 1994.45								
35030	K				36.26		1.9188		2.684				63936.55
		0.010	0.02	-0.13		1786.91		1754.60		0.00	0.00	1754.60	
94105	K				36.26		1.9185		2.684				65691.15
		0.010	0.02	-0.13		1786.91		1754.60		0.00	0.00	1754.60	
					2 S MAINTENANCE MEASUREMENT KIRKNIEMI I 1994.45								
35031	K				36.38		1.9271		2.681				48355.54
		0.005	0.03	-0.18		1926.94		1892.11		0.00	0.00	1892.11	
94106	K				36.38		1.9267		2.681				50247.65
		0.005	0.03	-0.18		1926.94		1892.11		0.00	0.00	1892.11	
					2 T MAINTENANCE MEASUREMENT MELTOLA II 1994.45								
89	M				36.14		1.9135		2.687				60834.09
		0.028	0.04	-0.20		1831.24		1798.12		0.00	0.00	1798.12	
94107	M				36.14		1.9131		2.687				62632.21
		0.028	0.04	-0.20		1831.24		1798.12		0.00	0.00	1798.12	
					2 U MAINTENANCE MEASUREMENT MELTOLA III 1994.46								
90	M				36.08		1.9133		2.687				51714.78
		0.123	0.03	-0.17		2373.44		2330.51		0.00	0.00	2330.51	
94108	P				36.09		1.9129		2.687				54045.28
		0.123	0.03	-0.17		2373.44		2330.51		0.00	0.00	2330.51	
					2 V MAINTENANCE MEASUREMENT KIRKNIEMI II 1994.83								
83	R				36.35		1.9257		2.680				51446.08
		0.128	-0.06	-0.38		2623.85		2576.43		0.00	0.00	2576.43	
94003	M				36.35		1.9252		2.680				54022.51
		0.128	-0.06	-0.38		2623.85		2576.43		0.00	0.00	2576.43	
					3 P MAINTENANCE MEASUREMENT PUROLA 1996.79								
69009	K				37.87		1.9278		2.653				68095.92
		0.015	0.00	-0.03		101.44		99.60		0.00	0.00	99.60	
96005	K				37.87		1.9278		2.652				68195.52
		0.015	0.00	-0.03		101.44		99.60		0.00	0.00	99.60	
					3 Q MAINTENANCE MEASUREMENT NUPPULINNA 1996.79								
32A	M				37.94		1.9284		2.683				72167.62
		0.021	-0.01	0.06		416.36		408.84		0.00	0.00	408.84	
96006	M				37.94		1.9283		2.684				72576.46
		0.021	-0.01	0.06		416.36		408.84		0.00	0.00	408.84	
					3 R MAINTENANCE MEASUREMENT JOKELA 1996.79								
65014	S				38.05		1.9315		2.740				71482.77
		0.180	-0.02	-0.10		514.97		505.67		-0.01	0.00	505.66	
96007	P				38.05		1.9313		2.738				71988.43
		0.180	-0.02	-0.10		514.97		505.67		-0.01	0.00	505.66	

1	2	3	4	5	6	7	8	9	10	11	12	13	14
						3 S MAINTENANCE MEASUREMENT TAKOJA 1996.79							
69026	K				38.10		1.9298		2.764				81928.42
		0.241	-0.07	0.30		6415.70		6299.77		0.01	0.00	6299.78	
96008	K				38.11		1.9287		2.767				88228.20
		0.241	-0.07	0.30		6415.70		6299.77		0.01	0.00	6299.78	
						3 T MAINTENANCE MEASUREMENT KERAVA 2001.20							
58023	K				37.40		1.9162		2.481				43019.02
		0.082	0.00	-0.04		87.73		86.14		0.00	0.00	86.14	
01003	K				37.40		1.9163		2.482				43105.15
		0.082	0.00	-0.04		87.73		86.14		0.00	0.00	86.14	
						5 P MAINTENANCE MEASUREMENT PIIKKIÖ 1995.34							
300	K				37.48		1.9433		3.694				10303.51
		0.023	0.00	-0.03		1680.64		1650.29		0.00	0.00	1650.29	
95001	K				37.48		1.9430		3.694				11953.80
		0.023	0.00	-0.03		1680.64		1650.29		0.00	0.00	1650.29	
						6 P MAINTENANCE MEASUREMENT HUMPPILA 1994.76							
68020	P				39.64		1.9436		3.896				107183.37
		0.128	-0.01	-0.14		907.26		890.88		-0.01	0.00	890.87	
94002	K				39.63		1.9435		3.894				108074.25
		0.128	-0.01	-0.14		907.26		890.88		-0.01	0.00	890.87	
						6 Q MAINTENANCE MEASUREMENT KYRÖ 1998.61							
65009	P				38.70		1.9343		3.928				72469.65
		0.056	-0.01	0.03		-759.12		-745.41		0.00	0.00	-745.41	
98003	P				38.70		1.9344		3.928				71724.24
		0.056	-0.01	0.03		-759.12		-745.41		0.00	0.00	-745.41	
						6 R MAINTENANCE MEASUREMENT LOIMAA 1998.61							
218	P				39.33		1.9475		3.957				84949.60
		0.074	0.01	-0.11		188.46		185.06		0.00	0.00	185.06	
LKP9	P				39.33		1.9477		3.958				85134.66
		0.074	0.01	-0.11		188.46		185.06		0.00	0.00	185.06	
						6 S MAINTENANCE MEASUREMENT HEVOSSAARI 2001.03							
37038	K				38.57		1.9355		3.921				66019.40
		0.020	-0.02	0.01		1200.74		1179.05		0.00	0.00	1179.05	
01001	K				38.57		1.9352		3.921				67198.45
		0.020	-0.02	0.01		1200.74		1179.05		0.00	0.00	1179.05	
						6 T MAINTENANCE MEASUREMENT TAKALISTO 2001.03							
65010	K				38.53		1.9337		3.924				69176.14
		0.018	-0.03	0.01		1871.77		1837.95		0.00	0.00	1837.95	
01002	K				38.53		1.9333		3.923				71014.09
		0.018	-0.03	0.01		1871.77		1837.95		0.00	0.00	1837.95	

1	2	3	4	5	6	7	8	9	10	11	12	13	14
10 P MAINTENANCE MEASUREMENT MYLLYKOSKI 1994.86													
58031	S				39.02		1.9217		2.129				41457.48
		0.156	-0.01	0.07		510.92		501.68		-0.01	0.00	501.67	
94004	S				39.01		1.9215		2.128				41959.16
		0.156	-0.01	0.07		510.92		501.68		-0.01	0.00	501.67	
10 Q MAINTENANCE MEASUREMENT MARINKYLÄ 1996.75													
38213	K				38.58		1.9218		1.983				29546.00
		0.031	0.01	-0.08		1788.44		1756.11		0.00	0.00	1756.11	
96001	K				38.58		1.9214		1.982				31302.11
		0.031	0.01	-0.08		1788.44		1756.11		0.00	0.00	1756.11	
10 R MAINTENANCE MEASUREMENT RAPAKIVENJÄRVI 1996.76													
433	K				38.45		1.9201		1.944				24814.48
		0.350	0.04	-0.07		958.56		941.23		-0.01	0.00	941.22	
96002	K				38.44		1.9196		1.941				25755.70
		0.350	0.04	-0.07		958.56		941.23		-0.01	0.00	941.22	
10 S MAINTENANCE MEASUREMENT KARVASTINVUORI 1996.75													
436	K				38.34		1.9153		1.910				32708.02
		0.052	0.01	0.04		784.23		770.05		0.00	0.00	770.05	
96003	K				38.34		1.9151		1.910				33478.07
		0.052	0.01	0.04		784.23		770.05		0.00	0.00	770.05	
10 T MAINTENANCE MEASUREMENT TUOHIKORPI 1996.75													
437	K				38.32		1.9146		1.899				32246.69
		0.024	0.00	0.02		194.40		190.88		0.00	0.00	190.88	
96004	K				38.32		1.9146		1.898				32437.57
		0.024	0.00	0.02		194.40		190.88		0.00	0.00	190.88	
13.1 P MAINTENANCE MEASUREMENT SIMOLA 1997.87													
715	K				39.55		1.9324		1.684				50526.41
		0.008	-0.03	-0.04		1199.55		1177.88		0.00	0.00	1177.88	
97001	K				39.55		1.9322		1.684				51704.29
		0.008	-0.03	-0.04		1199.55		1177.88		0.00	0.00	1177.88	
19 P MAINTENANCE MEASUREMENT PEIPOHJA 1994.34													
57014	S				40.95		1.9550		5.024				32185.95
		0.158	0.10	0.38		1107.56		1087.58		0.00	0.00	1087.58	
94001	M				40.94		1.9547		5.025				33273.54
		0.158	0.10	0.38		1107.56		1087.58		0.00	0.00	1087.58	
20.1 P MAINTENANCE MEASUREMENT TAMPERE 1998.86													
64084	K				42.14		1.9944		4.507				97709.52
		0.206	-0.02	-0.09		-171.10		-168.01		0.00	0.00	-168.01	
98005	K				42.14		1.9944		4.507				97541.51
		0.206	-0.02	-0.09		-171.10		-168.01		0.00	0.00	-168.01	

1	2	3	4	5	6	7	8	9	10	11	12	13	14
						20.1 Q MAINTENANCE MEASUREMENT TAMMERKOSKI 1998.86							
60019	K				42.15		1.9928		4.517				100463.74
		0.056	-0.01	-0.31		513.83		504.58		0.00	0.00	504.58	
98006	K				42.15		1.9939		4.517				100968.32
		0.056	-0.01	-0.31		513.83		504.58		0.00	0.00	504.58	
						20.2 P MAINTENANCE MEASUREMENT KALKKU 1996.96							
1544A	M				42.12		1.9852		4.601				114285.34
		0.024	-0.01	0.11		223.30		219.28		0.00	0.00	219.28	
96009	M				42.12		1.9853		4.601				114504.62
		0.024	-0.01	0.11		223.30		219.28		0.00	0.00	219.28	
						21 P MAINTENANCE MEASUREMENT VIIALA 1998.38							
62042	M				41.04		1.9808		4.130				91635.73
		0.096	0.02	0.16		628.14		616.82		0.00	0.00	616.82	
98001	M				41.04		1.9807		4.130				92252.55
		0.096	0.02	0.16		628.14		616.82		0.00	0.00	616.82	
						29 P MAINTENANCE MEASUREMENT RUMMAKKO 2001.79							
52109	M				45.40		2.0614		3.567				109251.92
		0.049	0.00	-0.09		-111.87		-109.86		0.00	0.00	-109.86	
01004	M				45.40		2.0615		3.567				109142.06
		0.049	0.00	-0.09		-111.87		-109.86		0.00	0.00	-109.86	
						46.2 P MAINTENANCE MEASUREMENT JUURIKKALAHDTI 2006.66							
69021	M				52.80		2.1671		4.888				157511.01
		0.095	0.00	-0.08		-1236.07		-1214.03		0.00	0.00	-1214.03	
06202	M				52.80		2.1674		4.888				156296.98
		0.095	0.00	-0.08		-1236.07		-1214.03		0.00	0.00	-1214.03	
						52.1 P MAINTENANCE MEASUREMENT ÄMMÄNSAARI 2000.46							
94302	P				55.96		2.2175		5.089				205663.00
		0.143	-0.01	-0.08		-668.85		-656.95		0.00	0.00	-656.95	
00001	P				55.96		2.2176		5.088				205006.05
		0.143	-0.01	-0.08		-668.85		-656.95		0.00	0.00	-656.95	
						F MAINTENANCE MEASUREMENT VÄHÄRAUMA 2003.49							
1620	R				42.13		1.9838		5.572				2183.58
		0.012	0.00	0.02		147.96		145.30		0.00	0.00	145.30	
AP2	S				42.13		1.9838		5.572				2328.88
		0.005	0.00	-0.01		634.93		623.49		0.00	0.00	623.49	
03213	S				42.13		1.9836		5.572				2952.37
		0.017	0.00	0.01		782.89		768.79		0.00	0.00	768.79	
						F MAINTENANCE MEASUREMENT KYLÄSAARI 2003.49							
88112	R				42.25		1.9820		5.628				3770.48
		0.019	0.02	0.03		-1519.56		-1492.18		0.00	0.00	-1492.18	
AP1	K				42.25		1.9064		5.628				2278.30
		0.006	-0.01	-0.02		1916.08		1881.56		0.00	0.00	1881.56	
03214	S				42.25		1.9820		5.628				4159.86
		0.025	0.01	0.01		396.52		389.38		0.00	0.00	389.38	

1	2	3	4	5	6	7	8	9	10	11	12	13	14
					OLK MAINTENANCE MEASUREMENT OLKILUOTO 2004.25								
03204	K				40.79		1.9723		5.201				10280.50
		0.017	-0.01	-0.03		1123.55		1103.29		0.00	0.00	1103.29	
04001	K				40.79		1.9722		5.227				11383.79
		0.017	-0.01	-0.03		1123.55		1103.29		0.00	0.00	1103.29	
					OLK MAINTENANCE MEASUREMENT OLKILUOTO 2004.25								
03205	K				40.84		1.9716		5.252				24873.89
		0.014	0.01	-0.07		-453.66		-445.48		0.00	0.00	-445.48	
04002	K				40.84		1.9717		5.271				24428.41
		0.014	0.01	-0.07		-453.66		-445.48		0.00	0.00	-445.48	
					OLK MAINTENANCE MEASUREMENT OLKILUOTO 2004.25								
03206	K				40.87		1.9750		5.271				10628.97
		0.019	0.01	-0.01		-417.53		-410.00		0.00	0.00	-410.00	
04003	K				40.87		1.9751		5.296				10218.97
		0.019	0.01	-0.01		-417.53		-410.00		0.00	0.00	-410.00	
					OLK MAINTENANCE MEASUREMENT OLKILUOTO 2004.25								
03208	K				40.94		1.9808		5.314				9879.03
		0.050	0.00	0.02		279.88		274.83		0.00	0.00	274.83	
04004	K				40.94		1.9807		5.335				10153.86
		0.050	0.00	0.02		279.88		274.83		0.00	0.00	274.83	
					OLK MAINTENANCE MEASUREMENT OLKILUOTO 2004.25								
03211	K				40.92		1.9814		5.305				1855.77
		0.039	-0.01	-0.05		907.98		891.62		0.00	0.00	891.62	
04005	K				40.92		1.9811		5.314				2747.39
		0.039	-0.01	-0.05		907.98		891.62		0.00	0.00	891.62	

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